



BRINGING NASA TECHNOLOGY DOWN TO EARTH



NTR

New Technology Reporting System



Improving life on Earth, one technology at a time

A New Technology Report (NTR) is the first step in helping NASA make the most of your technology



Report your NTR or NTSR

Not ready to submit?

Or [contact us](#) – we're here to help.



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Contact Us About New Technology Reports

Contractors: Point(s) of Contact at the NASA Center at which the Contracting Officer's Representative (COR) for your contract is located.

Government Employees: Point(s) of Contact at your center.

NASA Center	Point of Contact	Phone Number	E-mail
Ames Research Center	Kelly Garcia	(650) 604-3273	kelly.l.garcia@nasa.gov
	Earl Adams	(661) 276-5307	earl.s.adams@nasa.gov
Armstrong Flight Research Center	Samantha Hull	(661) 276-3368	samantha.m.hull@nasa.gov
	Kathy Kerrigan	(216) 433-5625	grc-ntsr@lists.nasa.gov
Glenn Research Center	Carole Bruck	(216) 433-8446	grc-ntsr@lists.nasa.gov
	Scott Leonardi	(301) 286-4698	robert.s.leonardi@nasa.gov
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Jet Propulsion Lab			

Johnson Space Center	Connie Sartor	(281) 483-3639	connie.j.sartor@nasa.gov
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Langley Research Center	Sevet Bassett	(757) 864-5578	sevet.r.bassett@nasa.gov
Marshall Space Flight Center	Carolyn McMillan	(256) 544-9151	carolyn.e.mcmillan@nasa.gov
Stennis Space Center	John Wolverton	(228) 688-2704	john.d.wolverton@nasa.gov
	Lauren Underwood	(228) 688-2096	lauren.w.underwood@nasa.gov

[NASA New Technology Representatives \(.docx\)](#)



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Frequently Asked Questions

Why do I need to submit an NTR?

- NTR stands for New Technology Report, but what counts as "reportable"?

This site explains what we mean by "reportable," but one way to think of it is: If in your work you solve some kind of a technical problem or find a new way of doing things that is somehow better, that is reportable as an NTR. **Any improvement**—no matter how big or small—should be reported in an NTR.

Generally, a new technology is any invention, discovery, improvement, or innovation—whether or not patentable – which includes, but is not limited to, new processes, machines, manufactures, and compositions of matter, and improvements to, or new applications of, existing processes, machines, manufactures, and compositions of matter. New technologies also include new computer programs, and improvements to, or new applications of, existing computer programs.

- Why are NTRs important to NASA?

NASA's founding legislation (see "US Law - Technology Transfer" info/graphic presented below) requires the Agency to disseminate information about its work as widely as is practical and appropriate. NTRs provide a means to capture information about technical discoveries, improvements, innovations, and inventions so that NASA can disseminate it appropriately.

Furthermore, several federal laws require technology transfer be pursued for new technologies developed with taxpayers dollars. NTRs are the first step in **that process**. Put simply: If we don't know about it, we can't share it effectively.

US Law – Technology Transfer

National Aeronautics and Space Act	To provide for the widest practicable and appropriate dissemination of information concerning its activities and results thereof
Stevenson-Wylder Technology Innovation Act of 1980 (P.L. 96-450)	Requires federal agencies to have formal technology transfer programs
Bayh-Dole Act of 1980 (P.L. 96-517)	Permits universities, not-for-profits, and small businesses to obtain title to inventions developed with federal funding
Federal Technology Transfer Act of 1985 (P.L. 99-502)	Makes tech transfer a responsibility of every federal laboratory scientist and engineer; establishes CRADAs

- **So am I required to submit NTRs?**

Yes, all NASA employees must report new technologies. Additionally, many other entities, such as contractors, grantees and NASA partners, have an obligation to report new technologies to NASA as required by their agreement.

- Civil servants are subject to [NASA Policy Directive 2091.1B](#) "Inventions Made by Government Employees."
- Contractors and grantees may be subject to [NASA Federal Acquisition Regulations \(FAR\) Supplement 1852.227](#)

- **Shouldn't NASA's new technology—which was paid for with taxpayer dollars—be made freely available to the public?**

The timing of a disclosure plays an important role in the value of a technology to a company, and thus the likelihood that they will use it. Companies are typically hesitant to use unprotected technologies because they can be easily copied by competitors, thus diluting their value, including:

- Companies that could make money with products or services that use NASA technology without paying royalties, in which case taxpayers lose out on the financial return on their investment
- Foreign entities that could use NASA technology in a manner that is in conflict with our national interests

NTRs allow NASA to manage the release of information about the technology in such a way that the value for the American people is maximized.

When do I submit an NTR?

- Is there a *right time* and a *wrong time* to submit an NTR?

The right time to submit an NTR is as soon as you recognize you have a new technology. The technology is not required to be at a certain stage of development or testing to be submitted as an NTR.

Think of it this way: It is never too early to submit an NTR, because you can always come back and update it as its development progresses.

Technically, there is no *wrong* time. However, it is best to submit the NTR *before* publicly disclosing the new technology. But even if that public disclosure has already occurred, please do submit the NTR so that NASA can make the most of your new technology. Better too early than too late, but better late than never.

- Why do I have to submit the NTR before publishing or talking publicly about it?

The NTR provides the opportunity for the involved parties to decide whether to patent a new technology. Federal laws and regulations require that a U.S. patent application be filed within 1 year of publicly disclosing the new technology. Furthermore, most foreign patents cannot be obtained after publicly disclosing the technology.

Therefore, if you release information about a new technology before filing the NTR, then the ability to patent the innovation can be compromised. And this can have a negative impact on the financial return that the American taxpayers can receive on their investment in NASA R&D.

- I want to give a paper about a new technology. When should I file the NTR?

Because it takes time for patent counsel to review the NTR and make the patenting decision, please submit the NTR **before** you submit an abstract for a session proposal to the conference organizers.

- If I've already publicly disclosed my new technology, should I still file the NTR?

Yes. Although NASA's options for protecting (patenting) the new technology may be limited at this point, there are still other productive ways we can disseminate information about the new technology and provide value to the American people. For example, the technology can be published in *NASA Tech Briefs* or otherwise publicized and might be used outside of the traditional **license agreement**. It could be used by other government agencies. It also could be submitted for an award, which could benefit you.

- All I have is an idea. Should I wait to submit the NTR until I have developed it further?

No. Submit the NTR as soon as you recognize that you have a **reportable technology**. You can always return to a previously submitted NTR to add new information as development progresses.

How do I submit an NTR?

- Where do I submit an NTR and do I need an account?

If this is your first NTR, **request an account here**. Once you have the account, **login** to enter your NTR data electronically. You can also download the **PDF version** or the **Word version** of the NF1679 form.

- Can I have someone else submit the NTR information for me?

Yes. Anyone familiar with the innovation can submit the NTR. They simply need to ensure that they have sufficient information to complete the NTR, which includes listing all of the innovators as part of the submission.

- I have all of the information about the new technology in a separate file. Can I load that into the system and not fill in the fields?

Although it is useful to include supporting documentation when you submit your NTR, it is very important that you complete the fields of the online form in as much detail as possible. Information about your innovation can then be easily tracked by NASA personnel to ensure that the technology is properly protected and to identify opportunities for the technology to be used within the Agency or by the public via the technology transfer process.

- Why do I need to include the innovators' employer information?

We require the innovators' employer information because NASA is limited in what it can do with the technology reported in an NTR depending on whether the government owns the technology.

A new technology's ownership (also referred to as "title") is affected by whether the innovators are civil servants or contractors. More specifically, the ownership rules are different for contractors who work for a large entity vs. those who work for a small entity, a university, or a nonprofit.

The rights that NASA has in R&D developed with Government funding depends on who invented the technology, and any agreement that governs the rights to that intellectual property.

What happens after I submit an NTR?

- Who has access to the information submitted into the online NTR system? Is it publicly accessible?

Only authorized NASA technology transfer personnel have access to the system. It is not accessible by other civil servants, contractors, or the public.

- How can I find out the current status for my NTR?

You should receive notification, either from the NASA-wide system or from personnel at your center, informing you whether your NTR submission is complete or if more information is needed. If you have not received notification, please **contact the new technology representative at your center.**

- Will my reported technology get patented?

It might. There are three aspects to patenting:

- Patenting first depends on ownership. If NASA doesn't own it, the Agency cannot patent it.
- Patenting next depends upon whether the new technology **can be patented**. Not every technology reported in an NTR is patentable.
- Finally there is a decision to be made about whether to invest in patenting. Just because a technology **can** be patented doesn't mean it **will** be.

- [Why doesn't NASA patent everything it can?](#)

Some NTRs that **can** be patented are not selected for patenting. The patenting decision frequently depends on whether the new technology has market potential.

- If NASA determines that a company might be willing to pay for the technology, then it makes sense for the Agency to spend the thousands of dollars in patenting costs to ensure that a financial return on taxpayers' investment can be obtained through licensing and royalties.
- Conversely, if NASA determines that the best course of action is to distribute the new technology freely, then there is no need to invest the Agency's resources in patenting it.

[› More about the technology transfer process](#)



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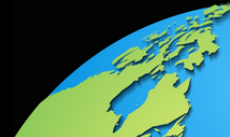
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What Is Reportable?

The definition of "new technology" is broader than you think

Any improvement—no matter how big or small—can be reported as an NTR. It doesn't matter if you consider it a discovery, an invention, an innovation, or simply an advance in the state of the art. For scientists and engineers, recognizing when you have something reportable can be hard to gauge, since it's easy to feel that you are just doing your job to meet project or program objectives. But it is still important for NASA to know about your work.



It can be difficult to identify when you really have created something new or novel or truly made an improvement. If you created something that works faster or better, is stronger or lighter or more robust, or is cheaper or easier to make, you have an innovation that you may be required to report in an NTR.

The following examples can also help you identify reportable technologies:

- New technology, designs, or concepts
- New or improved hardware, devices, machines, or prototypes, including at the nano or molecular level
- New or improved methods, assays, analyses, tests, processes, procedures, simulations, testbeds, integration, packaging, encapsulation, or miniaturization methods
- New or improved models (including, but not limited to, animals, tissue culture, cellular, molecular, or other biological models)
- New materials, compositions of matter, new arrangements of matter (including, but not limited to, synthetic, biological, genomic, proteomic, or molecular arrangements)
- New or improved manufacturing or fabrication approaches
- New software application or computer program, or even just a few lines of code
- New or novel uses or applications of existing technologies
- New process, technique, or formula
- New way of assembling commercial components
- New, modified, or updated software, algorithms, software concepts, simulations, or apps
- New or novel uses or applications of existing software-related or computing technologies

Even if it's *just an idea* for an improvement that has not been built or tested, it is reportable as an NTR.

[› Read more about *when* to report an NTR](#)

Still wondering whether your work is reportable? [Contact us](#) — we're here to help.



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When to Report an NTR

It is never too early to submit your NTR!

The best time to submit an NTR for your technology is as soon as you realize that you have something new and before you disclose it publicly. It may feel premature to report an idea or innovation before you have been able to vet it or develop a prototype, but the earlier you report it, the easier it will be for NASA to protect it.



NOW

- **No need to wait until the end of the project:** Even if there is still more work to do, submit the NTR.
- **No need to have prototyped or proven the technology:** Even if it's just an idea, submit the NTR.
- **No need to achieve a certain technology readiness level (TRL):** Even if more development is needed, submit the NTR.
- **No need to wait until it has been used in a NASA project:** Even if that decision still needs to be made, submit the NTR.
- **No need to know whether it can be patented/copyrighted:** Submit the NTR (and other required paperwork) and let NASA's patent counsel figure that out.

Even if you or someone on your project team already

disclosed the work, it is still important to submit the NTR.

Although you may believe that the invention can no longer be

patented due to publication or use bars, you should still report it.

Your discovery may still be valuable to other U.S. government

agencies, industry partners, or other NASA projects. And in the case

of software, it may be protected under copyright regulations. —

Better late than never.

Remember:

- The sooner we know about your new technology, the better
- It is never too early to submit an NTR
- Submit the NTR **before** disclosing the invention publicly
- Even if you or someone on your project team already disclosed the work, submit the NTR

Still have questions? [Contact us](#) — we're here to help.



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How to Submit an NTR

An NTR is the first step for NASA to make the most of your technology

The NTR is the first step in an important process of tracking and identifying novel applications for NASA's new technologies. Your improvements, modifications, innovations, and discoveries are valuable assets for NASA and the nation. Ensuring that your work has a chance to make a difference in the world begins with the NTR.

NTR submission is simple and quick using [e-NTR](#), especially when you have all of the needed information handy. After you have filled out the online NTR form, NASA's technology transfer personnel review your submission to ensure it is complete. Acceptance of the NTR is the final step of the submission process.

In cases where NASA owns the rights to an innovation, tech transfer personnel work closely with patent counsel to evaluate the NTR and make decisions regarding patenting, release of software, and whether/how to pursue technology transfer. In cases where rights to the technology are elected or requested by an organization outside of NASA, the owner may be responsible for IP protection and commercialization.

The NTR Process

Submission Process



What Happens Next



More about these processes is provided in this section, but if you have any questions, feel free to [contact us](#) — we're here to help.

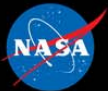


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Collect Key Information

Keeping a lab notebook is the best way to make reporting your NTR submissions fast and easy



NASA's online system has been streamlined to make submitting NTRs as easy as possible. All you need is very basic information about your new technology.

Here are some tips to help make the process as fast and easy as possible:

- **Use a lab notebook:** Keeping a record of your daily activities makes it easier to recognize when you have a [reportable technology](#).
Note: Submit the NTR as soon as you recognize that you have a new technology.
- **Record key dates:** As you develop a new technology or improvement, track your progress from sketch through model/beta through testing/alpha to include these details in the NTR.
Note: You can supplement a previously submitted NTR as development progresses.
- **Keep track of public disclosures:** If you do publicly disclose the technology, be sure to note the date and location and any other relevant details to include in the NTR.
Note: NASA innovators should always report their technology before sharing it publicly. But even if it has already been disclosed, it is still important to [report the NTR](#).

These simple activities not only make it easy and fast to report your technology but also provide all the details that patent counsel may need later in the process.

Questions? [Contact us](#) – we're here to help.



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Submit Your NTR

It takes only about 30 minutes to get started

Once you have an account and are ready to submit an NTR, login and complete the fields in as much detail as you can. Completing the form takes only 30 minutes or so.



The list below highlights the key information that should be reported via the NTR.

- Description of the innovation
- Explanation of why the innovation was developed
- Unique or novel features
- Key benefits
- Potential commercial applications
- Developmental milestones

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NTR Approval

Tech transfer personnel work to make the most of your technology



Once you have submitted an NTR, NASA's tech transfer personnel work diligently to make the most of your new technology for NASA and the nation. First, the NTR is routed to all innovators (including the submitter) to review and approve the NTR prior to final submission. Next, center personnel review the NTR to ensure that all of the important information has been documented.

When the review process is complete, you should receive notification—either from the NASA-wide system or from personnel at your center—informing you that your NTR submission is complete and a case number has been assigned.

If you do not receive notification, please **contact** the new technology representative at your center.



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Technology Transfer

Technology transfer can take many different forms

Depending on the findings of the NTR evaluation, your technology may be selected to continue through the technology transfer process. Within technology transfer, there are many different paths. Your technology might be suitable for applications within industry, so the technology transfer personnel will seek potential licensees. Or your innovation might be a good candidate for collaborative R&D. Regardless of the type of activity pursued, NASA technology transfer professionals always work to ensure arrangements that are beneficial for NASA, the inventor, and the partner.



As with the R&D that leads up to the new technology, the road for the NTR can be a twisting route with several forks and unexpected turns. It may go quickly or it may take a long time, and you are always welcome to [contact us](#) to find out the status of your NTR.

The Technology Transfer Process

The steps taken as part of technology transfer vary depending on the type of technology and the market where it is most likely to be applied. However, there are several tools that technology transfer personnel commonly use to let others know about a technology that is available for license or an opportunity for partnership:

- Prepare and distribute online and/or print materials to publicize your innovation
- Contact companies or other organizations that may be interested in your innovation
- Facilitate interactions with interested, qualified parties
- If appropriate, arrange for your innovation to be presented at trade shows, conferences, and workshops

Throughout the technology transfer process, you will have the opportunity to review communications materials, such as articles in *NASA Tech Briefs*, brochures, online technology listings, etc. If you have any questions along the way, please do not hesitate to **contact** the tech transfer personnel at your center.

Types of Agreements

Technology transfer may be achieved through various agreement mechanisms, including licenses (most of which result in royalty revenue), partnership agreements, and software usage agreements.

NASA works hard to ensure that any agreements put in place protect NASA's – and your – interest in the technology while enabling partners to effectively bring a technology to market, ensure that the American public benefits from the R&D funded by their tax dollars. Available agreement types are outlined below.

Licenses

Three types of license agreements are available:

- Nonexclusive
- Exclusive
- Evaluation/Research

Partnership Agreements

- Space Act Agreement (SAA)
- Cooperative Research and Development Agreement (CRADA)

Software Release

Requests to use NASA software can be made by external parties or the software's developers. Before software can be released to these parties via the software release authority, an NTR must generally be submitted. The types of software release are summarized below.

- General public release
- Open source release
- US and foreign release
- General US release only
- US government purpose release



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Request an Account

If you would like to register your account under a NASA email address, it will not be necessary for you to request an account using the form below. Please visit the [Login](#) page and click the "NASA IdMAX Authenticate" button, and your account will be created immediately. If you have any questions, please contact the NTR/NTTS Help Desk at (757) 865-2233 or ntts-support@lists.nasa.gov.

If you already have an account, you can sign in here

If you would like to register your account under a non-NASA email address, please complete and submit the form below. This is a simple and quick process. After you have submitted the form, e-NTR will then send you a confirmation that your account has been established. You are then ready to [Login](#) and submit your NTR.

If you need help with setting up or accessing your account please contact the NTR/NTTS Help Desk at (757) 865-2233

Required information for Account

First Name:

Last Name:

Current Email Address:

For Non-NASA account requests, please use your business/university e-mail address that is associated with your contract, grant, or agreement with NASA.

Note: Public email addresses (gmail, hotmail, etc) will not be accepted without prior approval.

User Name:

Account Type:

Company: Select this account type if you are a contractor, grantee, or partner that is responsible for submitting New Technology Summary Reports under your contract, grant or agreement with NASA.

User: All other users without a NASA e-mail address should select this account type.

NASA Funding Agreement Number:

NASA Funding Agreement Number is the identification number associated with your contract, grant, cooperative agreement or Space Act Agreement.

Phone Number:

Format: (xxx) xxx-xxxx

Please enter the numbers and letters in the box for security:



[Refresh Code](#)



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Log in here to report your technology or NTSR

Username:

[Forgot Password](#)

Password:

[Request Account](#)

[Questions? Contact the Help Desk](#)

PLEASE NOTE: This is a U.S. Government Computer System. If not authorized to access this system, please disconnect. By continuing, you consent to your keystrokes and data content being monitored. If you do not have authorization you are warned to disconnect at once. Actual or attempted use, access, communication, or examination by unauthorized persons is a criminal violation of Title 18, United States Code, Section 1030.

If you need to create an account (or have an existing account) under a NASA email address, log in here using your NASA IdMAX credentials:



If you are a NASA IdMAX user, please click the following "NASA IdMAX Authenticate" button to authenticate with NASA Single-Sign-On.

NASA IdMAX Authenticate

[What to expect when logging in through IdMAX](#)

NASA Information Technology Security Policy requires that any account that has been inactive for 30 days or longer be locked. If your account becomes locked, contact the Help Desk at ntfs-support@lists.nasa.gov or 757-865-2233 to regain access to it.

Note that you will be logged off this system after 15 minutes of inactivity. An autosave of open web pages is occurring every five minutes.

NASA Form 1679 (NF1679) - Disclosure of Invention and New Technology (Including Software): (Use when a new technology/invention is developed). You may either log in above and fill out the electronic version of the NF1679 or download the [PDF](#) or [Word](#) version to be sent via email to your NASA center.

What qualifies as new technologies and innovations is very broad. They include any invention, discovery, improvement, or innovation that was either conceived or first actually reduced to practice in the performance of NASA work. This includes any new and useful processes, machines, manufacture, or composition of matter; or any new and useful improvement in existing processes, machines, manufacture, or compositions of matter. Also included are new computer programs, and improvements to, or new applications of, existing computer programs, whether or not copyrightable. A representative list of new technologies and innovations includes, but is not limited to: new or improved techniques, products, devices, materials, methods, processes, chemical compositions, systems, machines apparatuses, articles, fixtures, tools, or software.

Interim New Technology Summary Report (NTSR): a listing (every 12 months from the start of the Contract) of all new technologies (inventions and/or innovations) developed during the reporting period, or certification that there were none.

Final New Technology Summary Report (NTSR): a listing (prior to the Contract closeout) of all new technologies (inventions and/or innovations) developed during performance of the Contract, or certification that there were none.

NASA prefers that contractors/grantees/recipients use the NASA NTSR form, by way of the New Technology Reporting System when submitting an NTSR.

Paperwork Reduction Act Statement: This information collection meets the requirements of 44 U.S.C. § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget control number. The OMB control number for this information collection is 2700-0052 and it expires on mm/dd/yyyy. We estimate that it will take about eight (8) hours to read the instructions, gather the facts, answer the questions, and transmit. You may send comments on our time estimate above to: Peter Tran, Ames Research Center, Moffett Field, CA. 94035. Send only comments relating to our time estimate to this address, not the completed form.



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What to expect when logging in through IdMAX

1. If you do not have an existing account: a new “user” account will be created under your NASA Agency User ID and primary IdMAX NASA email address. The account will give you access to the New Technology Report (NTR) form, which is an electronic version of NASA Form 1679. In the future, the account will only be accessible via IdMAX login.

2. If you have an existing e-NTR account registered under your primary IdMAX NASA email address: logging in through IdMAX will allow you to access this account and will replace your existing username with your NASA Agency User ID. In the future, the account will only be accessible via IdMAX login.

3. If you have an existing e-NTR account registered under an alias IdMAX NASA email address: a new “user” account will be created under your NASA Agency User ID and primary IdMAX NASA email address. The account will give you access to the New Technology Report (NTR) form, which is an electronic version of NASA Form 1679. In this case, you will need to contact the Help Desk at 757-865-2233 to have your old (alias NASA email address) account merged into your new (primary NASA email address) account. After that, the remaining account will only be accessible via IdMAX login.

4. If you have an existing e-NTR account registered under a Non-NASA email address: a new “user” account will be created under your NASA Agency User ID and primary IdMAX NASA email address. The account will give you access to the New Technology Report (NTR) form, which is an electronic version of NASA Form 1679. You can still access your old (non-NASA email address) account using your existing e-NTR username and password. If needed, you can contact the Help Desk at 757-865-2233 to have your old (non-NASA email address) account merged into your new (primary NASA email address) account. After that, the remaining account will only be accessible via IdMAX login.



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Account Retrieval

If you have forgotten your user ID or password for logging into the electronic New Technology Reporting system (e-NTR), enter the e-mail address associated with your e-NTR account into the form below to have your user id and new password delivered to your e-mail.

If your account is associated with a NASA email address, it will not be necessary for you to request a new password. Please visit the [Login](#) page, click "NASA IdMAX Authenticate" and use your IdMAX credentials to log in.

E-mail:

Please retype numbers and letters for security:



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If you have questions or comments, please contact the NTR/NTTS Help Desk at 757-865-2233 or ntts-support@lists.nasa.gov.



National Aeronautics and Space Administration

NASA Official: Dan Lockney

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BRINGING NASA TECHNOLOGY DOWN TO EARTH



NTR

New Technology Reporting System

Evaluation and IP Protection

NASA evaluates NTRs according to several factors

For NTRs covering innovations developed by civil servants, as well as those for which the contractor or grantee has decided not to pursue patent protection and commercialization, NASA conducts an evaluation process to determine the potential for IP coverage and commercialization. In deciding what happens to an NTR, we evaluate the technology according to three factors:



- Technology readiness
- Market attractiveness
- Intellectual property (IP) strength

We rely on our technical expertise and market research to determine:

- How does the technology compare to what is currently available?
- Who could use it and how much do they need it?
- Is it ready to be used now and is the innovator available to assist with the transfer?
- Can it be protected?

Depending on the answers to these questions, your NTR may be:

- Prepared for pursuit of patent protection in the United States and/or foreign countries
- Submitted for an award from NASA or an external organization
- Published in *NASA Tech Briefs*
- Listed in *NASA's technology transfer portal*
- Publicized on your center's technology transfer site
- Actively marketed to potential licensees or collaborators/partners
- Placed "on hold" to monitor the market's readiness for the technology or to wait until further development of the technology has occurred

Innovators support the tech transfer process

Innovators can provide valuable input in helping to identify commercial applications and potential partners, since you are very familiar with the current state-of-the-art and key players in industry. As a result, it is very important for you to complete the sections in the NTR related to the potential commercial markets. In most cases, technology transfer professionals will contact the innovators to discuss their NTRs. You may also be asked to participate in some of the activities highlighted above—for example, reviewing an award application or marketing materials.

More about IP Protection

In most cases, intellectual property protection comes in the form of a patent. Software might be patentable or it could be eligible for copyright. If NASA decides to pursue patent or copyright protection for your technology, NASA's patent attorneys will work with you to protect the intellectual property.

What is a patent?

A patent for an invention is the grant of a property right to the owner. The owner can then selectively give that right to others via a license, usually in exchange for financial payments such as up-front fees and/or royalties. Most companies are not interested in a technology if it is not patented, since other companies can easily copy it and use it themselves, taking away the competitive advantage.

Can anything be patented?

In order for a utility patent to be granted, the invention must be new, non-obvious (not an obvious difference from the prior art), and have a useful purpose.

Does NASA patent everything it can?

Because it costs thousands of dollars to patent a new technology, NASA is selective in deciding what to patent. If the Agency expects there to be a financial return or some other benefit that can be achieved only by patenting the technology, then NASA will apply for a patent.

Can software be patented?

Yes, some software may be protectable by patent, but only if it forms an integral and necessary part of a qualifying machine, manufacture, or process. Underlying concepts in a computer program may be patentable, but normally the code is only protected by copyright.

What is copyright?

Copyright gives the author of an original work the exclusive right to make copies, publish, distribute, and adapt it.

Can NASA software be copyrighted?

Copyright protection is not available in the U.S. for software developed **solely** by federal government employees in the scope of their employment, although foreign copyright may be available. Copyright protection may be available in the U.S. for software that is co-developed with federal government employee(s) along with non-federal government employee(s). NASA can also obtain copyright in software from third parties via an assignment or license.



National Aeronautics and Space Administration

NASA Official: Dan Lockney

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| Account Type: user | Email:

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If you need to create a New Technology Summary Report (NTSR), please call the Help Desk at 757-865-2233 and request your account type be changed to "Company".

Below is a list of items that you have submitted for review. After your submitted entry has been accepted or denied, it will be displayed in the appropriate box below.

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No Records Found

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No Records Found

My Denied Entries (0)

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NTR Report Date: e-NTR#: 1490186611

General Information

Description

Commercialization

Technology Readiness / Software

Development History

General Information

New Technologies are defined as any invention, discovery, improvement, or innovation whether or not patentable, either conceived or first actually reduced to practice in performance of NASA work. This includes, but is not limited to, new processes, machines, manufactures, and compositions of matter, and improvements to, or new applications of, existing processes, machines, manufactures, and compositions of matter. New Technologies also include new computer programs, and improvements to, or new applications of, existing computer programs.

Please do not submit ITAR sensitive information or attachments into this system.

(If you are a NASA Civil Servant, choose the Center at which you work. If you are a Contractor, choose the Center at which your Contracting Officer's Representative(COR) works. If you are a Grantee, choose the Center at which your Grant Technical Officer works.)

Which NASA Center does this New Technology Report belong to? **(required)**

Company Tech Rep. Name:

NASA COR Name:

NTR Title **(required)**

Title Elected by Waiver #:

Internal Docket No./Contractor Tracking No.

If the entity at which the submitter is employed uses an internal identification code for tracking technologies, it would be entered here.

Funding Mission Directorate **(required)**

[+ Add Funding Mission Directorate](#) (For more information on NASA Mission Directorates click [here](#))

Funding Mission Directorate	Description
No records found.	

Total Records: 0

Funding Mission Directorate (required)

[+ Add Funding Mission Directorate](#) (For more information on NASA Mission Directorates click [here](#))

Funding Mission Directorate	Description
No records found.	

Total Records: 0

WBS Information

[+ Add WBS Information](#)

FY	WBS Number	Program Name	Project Name
No records found.			

Total Records: 0

Innovators (required)

(Includes: Employer, Address, and Employer Status)

Please Note: The Innovators will be listed in the disclosure to NASA in the same order as entered below.

[+ Add Innovator](#)

Order	Last Name	First Name	Email	Contract Number
No records found.				

Total Records: 0

Origin

In House Grant Subcontract Other Joint Prime Contract Multiple Contractor

Additional Documentation

Include copies or list below any pertinent documentation which aids in the understanding or application of the innovation (e.g., articles, contractor reports, engineering specs, assembly/manufacturing drawings, parts or ingredients list, operating manuals, test data, assembly/manufacturing procedures, etc.).

[+ Add Documentation](#)

Title	Page Number	Date	File Name
No records found.			

Total Records: 0

 Save

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Innovator's Information

Email Address: *(required)*

Innovator #: *(required)*

Prefix:

First Name: *(required)*

Middle Name:

Last Name: *(required)*

Suffix:

Current Title:

Phone Number: *(required)*

Org Codes:

POC

Software Author

Innovator

Contributor

NASA Employee for this Case

Place of Performance When Innovation Was Made

Employer Name When Innovation Was Made: *(required)*

Department/Division:

Address Where Innovation Was Made: *(required)*



City: *(Required)*

State: *(Required)*

Zip Code: *(Required)*



Add Innovator



City: *(Required)*

State: *(Required)*

Zip Code: *(Required)*

Country:

Current Employer Information [Same as above](#)

Employer Name:

Department/Division:

Address:

City:

State:

Zip Code:

Country:

Non-US Address:



Contract/Grant Information

Contract/Grant/Co-op Agreement: *(not required for NASA CMI Servant)*

Contract Type: *(not required for NASA CMI Servant)*

Select



Employer Status: *(Required)*

Select



Add



Add Funding Mission Directorate



Funding Mission Directorate **(required):**

 Add

Closure to NASA in the same order as entered by

Name

Email

Add WBS Information



Fiscal Year:

Select One ▾

Center:

Select One ▾

WBS Number:

Fund:

Program Name:

Project Name:



Add



Auto Save in 2 minute(s)



NTR Report Date: e-NTR#: 1490186611

General Information

Description

Commercialization

Technology Readiness / Software

Development History

Brief Abstract

(A general description of the innovation which describes its capabilities, but does not reveal details that would enable duplication or imitation of the invention.)

Description of the Problem or Objective That Motivated the Innovation's Development

(Enter as appropriate: A.- General description of problem/objective; B.- Key or unique problem characteristics; C.-Prior art, i.e., prior techniques, methods, materials, or devices performing function of the innovation, or previous means for performing function of software; and D.- Disadvantages or limitations of prior art.)

Technically Complete and Easily Understandable Description of Innovation Developed to Solve The Problem or Meet The Objective

(Enter as appropriate; existing reports, if available, may form a part of the disclosure, and reference thereto can be made to complete this description: A. Purpose and description of innovation/software; B. Identification of component parts or steps, and explanation of mode of operation of innovation/software preferably referring to drawings, sketches, photographs, graphs, flow charts, and/or parts or ingredient lists illustrating the components; C. Functional operation; D. Alternate embodiments of the innovation/software; E. Supportive theory; F. Engineering specifications; G. Peripheral equipment; and H. Maintenance, reliability, safety factors.)

Technically Complete and Easily Understandable Description of Innovation Developed to Solve The Problem or Meet The Objective

(Enter as appropriate; existing reports, if available, may form a part of the disclosure, and reference thereto can be made to complete this description: A. Purpose and description of innovation/software; B. Identification of component parts or steps, and explanation of mode of operation of innovation/software preferably referring to drawings, sketches, photographs, graphs, flow charts, and/or parts or ingredient lists illustrating the components; C. Functional operation; D. Alternate embodiments of the innovation/software; E. Supportive theory; F. Engineering specifications; G. Peripheral equipment; and H. Maintenance, reliability, safety factors.)

A large, empty rectangular text box with a thin black border, intended for the technical description of the innovation. A small three-dot icon is visible in the bottom right corner of the box.

Unique or Novel Features

(Enter as appropriate: A.- novel or unique features; B.- Advantages of Innovation/software; C.- Development or new conceptual problems; D.- Test data and source of error; E.-Analysis of capabilities; and F. - For software, any re-use or re-engineering of existing code, use of shareware, or use of code owned by a non-federal entity.)

A large, empty rectangular text box with a thin black border, intended for describing unique or novel features. A small three-dot icon is visible in the bottom right corner of the box.

 Save

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NTR Report Date: e-NTR#: 1490186611

[General Information](#) | [Description](#) | [Commercialization](#) | [Technology Readiness / Software](#) | [Development History](#)

Potential Commercial Applications

Speculation regarding potential commercial applications and points of contact. *(Including names of companies producing or using similar products.)*

Save

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NTR Report Date: e-NTR#: 1490186611

- General Information
- Description
- Commercialization
- Technology Readiness / Software
- Development History

Publications

PREVIOUS OR CONTEMPLATED PUBLICATION OR PUBLIC DISCLOSURE INCLUDING DATES

Provide as applicable: A. – Type of publication or disclosure, e.g., report, conference or seminar, oral presentation; B. – Disclosure by NASA or Contractor/Grantee; and C. – Title, volume no., page no., and date of publication.

[+ Add Publication Information](#)

Type	Title	Volume	Publication/Conference Date
No records found.			

Total Records: 0

Degree of Technical Significance

(Which best expresses the degree of technological significance of this innovation?)

Degree of Technical Significance <input type="text" value="Please Select One"/>	State of Development <input type="checkbox"/> Concept Only <input type="checkbox"/> Design <input type="checkbox"/> Prototype <input type="checkbox"/> Modification <input type="checkbox"/> Production Model <input type="checkbox"/> Used in Current Work
---	---

Patent Status

Enter information on any prior patents or patent applications disclosing or related to this new technology/innovation.

[+ Add Patent Status](#)

Patent Number	Issue Date	App Serial Num	App File Date
No records found.			

Total Records: 0

Development Timeframe

Indicate the dates or the approximate time period during which this innovation was developed. *(i.e., conceived, constructed, tested, etc.)*

Questions for Software Only

Add Patent Status



Application Filed Patent Issued

Patent Number:

Issue Date:



Application Serial Number:

Application Filing Date:



Add

Add Publication Information



Type of publication or disclosure:

Disclosure by:

Publication/Conference Name:

Title *(required)*:

Volume number:

Page number:

Publication/Conference Date: 

Contemplated

 Add

(Which best expresses the degree or technological significance of this innovation?)

Degree of Technical Significance

Please Select One

State of Development

- Concept Only
- Design
- Prototype
- Modification
- Production Model
- Used in Current Work

Patent Status

Enter information on any prior patents or patent applications disclosing or related to this new technology/innovation.

[+ Add Patent Status](#)

Patent Number	Issue Date	App Serial Num	App File Date
No records found.			

Total Records: 0

Development Timeframe

Indicate the dates or the approximate time period during which this innovation was developed. (i.e., conceived, constructed, tested, etc.)

Questions for Software Only

Software innovations include computer programs as well as underlying processes and methods implemented by computer programs, including design details, algorithms, formulae, flow charts, and related material that would enable a particular computer program, or a functional equivalent thereof, to be produced or created. Software innovations do not include computer databases or software documentation. However, software documentation that discloses the type of information described above should be submitted with any disclosure of the related software innovation.

Please read the following carefully:

Software Application

(If this is a software related invention, check the box and complete the questions below.)

 Save

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NTR Report Date: [] e-NTR#: 1490186611

- General Information
- Description
- Commercialization
- Technology Readiness / Software
- Development History**

Development History, Stage of Development

(Month, Year, Location, and Identify Persons or Records Supporting Facts)

NOTE: For Inventions that have not completed all stages involved in the Development History section please enter "N/A" in the supporting facts field for stages not yet completed.

First disclosure to others.

Month: Year: Location:

IDENTIFY SUPPORTING WITNESSES (NASA in-house only):

First sketch, drawing, logic chart or code.

Month: Year: Location:

IDENTIFY SUPPORTING WITNESSES (NASA in-house only):

First written description.

Month: Year: Location:

IDENTIFY SUPPORTING WITNESSES (NASA in-house only):

Completion of first model of full sized device (invention) or beta version (software).

Month: Year: Location:

Month

IDENTIFY SUPPORTING WITNESSES (NASA in-house only):

First successful operational test (invention) or alpha version (software).

Month: Year: Location:

Month

IDENTIFY SUPPORTING WITNESSES (NASA in-house only):

Contribution of innovators.

Indicate any past, present, or contemplated government use of the innovation, or any other comments you wish to make.

 Save

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Accepted Summary Reports (Total Records: 0)

No Records Found

Denied Summary Reports (Total Records: 0)

No Records Found

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CENTER (* required):

(If you are a Contractor, please choose the NASA Center at which your Contracting Officer's Representative (COR) works. If you are a Grantee, choose the NASA Center at which your Grant Technical Officer works.)

Section 1

Section 2

Section 3

NASA contracts, grants, cooperative agreements, and subcontracts (Funding Agreements) for experimental, developmental or research work require each **Contractor/Grantee/Subcontractor (C/G/S)** to report New Technology Items to NASA or provide certification that there were none.

Disclosure of Invention and New Technology (Including Software) NASA Form 1679 or equivalent information required.

The C/G/S must submit a detailed disclosure of each New Technology Item (reportable item or subject invention - see definition below) made under the funding agreement within two months after innovator's disclosure to the C/G/S.

New Technology Summary Report (NTSR) (check marked Interim)

The C/G/S must submit a detailed disclosure of each New Technology Item (reportable item or subject invention - see Section 2 for definition) made under the funding agreement within two months after innovator's disclosure to the C/G/S.

New Technology Summary Report (NTSR) (check marked Interim)

Report (NTSR) (check marked "Interim") For multi-year efforts, the C/G/S must submit a summary listing of all New Technology Items developed during the reporting period, OR provide certification that there were none. The first Interim New Technology Summary Report is due 12 months from the effective date of the effort. Additional reports are due annually thereafter.

New Technology Summary Report (NTSR) (check marked Final)

The C/G/S must submit a cumulative summary listing of all New Technology Items developed during the entire performance of the Funding Agreement, OR provide certification that there were none. The Final New Technology Summary Report must be submitted within 3 months of end date.

NASA Funding Agreement Information

NASA Funding Agreement Number (* required):

Type:

Company Name:

Company Address:

Contractor/Grantee/Subcontractor New Technology Representative

Name:

Email:

Phone:

Report Submitted By (If not New Technology Representative)

Name:

Email:

Phone:

Report Submission Date (YYYY-MM-DD)

Date of Submission: 

I. Type of Report

Interim 

Reporting Period Start / End Dates (YYYY-MM-DD)

Start: 

End: 

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[Account Type: company | Email:]

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CENTER (* required):

(If you are a Contractor, please choose the NASA Center at which your Contracting Officer's Representative (COR) works. If you are a Grantee, choose the NASA Center at which your Grant Technical Officer works.)

Section 1

Section 2

Section 3

NASA contracts, grants, cooperative agreements, and subcontracts (Funding Agreements) for experimental, developmental or research work require each Contractor/Grantee/Subcontractor (C/G/S) to report New Technology Items to NASA or provide certification that there were none.

Business Type:

Have any New Technology Items resulted from work performed under this Funding Agreement during this reporting period?

If Yes, were they disclosed to NASA?

Are New Technology Items being disclosed with this Summary Report?

Note: If they have not yet been disclosed, or if you need to submit one with this NTSR, they can be disclosed using a New Technology Report. By choosing this [link](#) you will be taken to the New Technology Report Form in a new window.

Definition of New Technology Items

Large business C/G/S must disclose all reportable items to NASA. Reportable item as used in NASA Funding Agreements with large businesses means any invention, discovery, improvement, or innovation, whether or not patentable, conceived or first actually reduced to practice in the performance of work under a NASA Funding Agreements. Reportable items include, but are not limited to, new processes, machines, manufactures, and compositions of matter, and improvements to, or new applications of, existing processes, machines, manufactures, and compositions of matter. Reportable items also include new computer programs, and improvements to, or new applications of, existing computer programs, whether or not copyrightable.

Small business, nonprofit organization, and college and university C/G/S must disclose all subject inventions to NASA. Subject invention as used in NASA Funding Agreements with other than large businesses means any invention or discovery **which is or may be patentable** and is conceived or first actually reduced to practice in the performance of work under a NASA Funding Agreements. Subject inventions include any new process, machine, manufacture, or composition of matter, including software, and improvements to, or new applications of, existing processes, machines, manufactures, and compositions of matter, including software.

Small business, nonprofit organization, and college and university C/G/S must disclose all subject inventions to NASA. Subject invention as used in NASA Funding Agreements with other than large businesses means any invention or discovery **which is or may be patentable** and is conceived or first actually reduced to practice in the performance of work under a NASA Funding Agreements. Subject inventions include any new process, machine, manufacture, or composition of matter, including software, and improvements to, or new applications of, existing processes, machines, manufactures, and compositions of matter, including software.

Note: Subject to approval by C/G/S who retain or obtain title to subject inventions or reportable items, all such technologies are evaluated for publication in NASA Tech Briefs magazine. If an item is published in NASA Tech Briefs, the innovator may be considered for an award from NASA. Innovations meeting eligibility requirements may also be considered for additional Space Act Awards (<http://icb.nasa.gov>).

II. New Technology Items

Please provide the following information for all New Technology Items reportable under this Funding Agreement during the reporting period.

[+ Add New Technology Item](#)

Title	Internal Docket No./Contractor Tracking No.	e-NTR No	NASA Case No.	Submitted Date
No records found.				

Total Records: 0



Save

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 Save**CENTER (* required):**

(If you are a Contractor, please choose the NASA Center at which your Contracting Officer's Representative (COR) works. If you are a Grantee, choose the NASA Center at which your Grant Technical Officer works.)

Section 1

Section 2

Section 3

NASA contracts, grants, cooperative agreements, and subcontracts (Funding Agreements) for experimental, developmental or research work require each Contractor/Grantee/Subcontractor (C/G/S) to report New Technology Items to NASA or provide certification that there were none.

III. Subcontractors

Please complete the following section listing all research subcontractors participating to date. Include each research subcontractor's name, address, contact person, telephone number and email address. Note: If subcontractors have New Technology Items to disclose, they should follow the same reporting process as prime participants.

[+ Add Subcontractor](#)

Company	Contact Person	Email Address
No records found.		

Total Records: 0

Certification

By pressing "Submit" on this New Technology Summary Report I certify that active and effective procedures ensuring prompt identification and timely disclosures of reportable New Technology Items have been followed. Furthermore, I certify that all New Technology Items required to be disclosed during the period identified on this form have been disclosed to NASA or are being submitted herewith.

 Save

Subcontractors



Company Name:

Company Address:

City: State: Zip:

Country: Province:

Contact Person:

Phone: E-mail Address:

Add