

OMB #0925-0747

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# Attachment 7: Mapping Data Sources to Hallmarks of Success

KEY:

- TFS= HERI- The Freshman Survey
- CSS = HERI- College Senior Survey
- FAC = HERI- Faculty Survey
- FAC-STEM = HERI- Faculty Survey STEM Module
- FAC-MENTOR = HERI- Faculty Survey Mentoring Module
- D-SAFS = DPC Student Annual Follow-up Survey
- D-FAFS = DPC Faculty Annual Follow-up Survey
- NRMN FUP = NRMN Annual Follow-up Survey

Domain	Elements	Hallmarks	Data Source / Measure
<b>Student</b>	High academic self-efficacy	STU-1	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> <li>• D-SAFS</li> </ul>
	High self-efficacy as a researcher	STU-2	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	High science identity	STU-3	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Satisfaction with quality of mentorship	STU-4	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Perceived sense of belonging within the university	STU-5	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> </ul>
	Perceived sense of belonging within the research community	STU-6	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Intent to pursue a career in biomedical research	STU-7	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Entry into an undergraduate biomedical degree program	STU- 8	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> </ul>
	Persistence in biomedical degree or other formal research training program	STU-9	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>

Domain	Elements	Hallmarks	Data Source / Measure
<b>Student</b>	Frequent receipt of mentoring to enhance success in the biomedical pathway*	STU-10	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Participation in mentored or supervise biomedical research	STU - 11	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Evidence of competitiveness for transitioning into the next phase in the biomedical career pathway	STU-12	<ul style="list-style-type: none"> <li>• TFS</li> <li>• CSS</li> <li>• D-SAFS</li> </ul>
	Participation in academic or professional organizations related to biomedical disciplines	STU-13	<ul style="list-style-type: none"> <li>• CSS</li> <li>• B-SAFS</li> <li>• NRMN FUP</li> </ul>
	Evidence of excelling in biomedical research and scholarship <i>(submit applications &amp; receipt of awards, poster/ paper presentations, peer-reviewed publications)</i>	STU-14	<ul style="list-style-type: none"> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Strong academic and professional networks	STU-15	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN-FUP</li> </ul>
	Completion of biomedical degree or other formal training program	STU-16	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Application and acceptance to a subsequent research training program in a biomedical discipline	STU-17	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
	Entrance into a subsequent research training program in a biomedical discipline	STU-18	<ul style="list-style-type: none"> <li>• CSS</li> <li>• D-SAFS</li> <li>• NRMN FUP</li> </ul>
<b>Faculty</b>	High self-efficacy as an instructor in a biomedical field	FAC-1	<ul style="list-style-type: none"> <li>• FAC</li> <li>• FAC-STEM</li> <li>• D-FAFS</li> </ul>
	High self-efficacy as an instructor to a diverse group of biomedical students	FAC-2	<ul style="list-style-type: none"> <li>• FAC</li> <li>• FAC-STEM</li> </ul>
	High self-efficacy as a mentor to biomedical research trainees	FAC-3	<ul style="list-style-type: none"> <li>• FAC</li> <li>• FAC-MENTOR</li> <li>• D-FAFS</li> </ul>

Domain	Elements	Hallmarks	Data Source / Measure
Faculty			<ul style="list-style-type: none"> <li>• NRMN FUP</li> </ul>
	High self-efficacy as a mentor to diverse group of biomedical research trainees	FAC-4	<ul style="list-style-type: none"> <li>• FAC</li> <li>• FAC-MENTOR</li> <li>• D-FAFS</li> <li>• NRMN FUP</li> </ul>
	Frequently mentors students, post-docs, and/or more junior faculty on biomedical related issues	FAC-5	<ul style="list-style-type: none"> <li>• FAC</li> <li>• FAC-MENTOR</li> <li>• D-FAFS</li> <li>• NRMN FUP</li> </ul>
	High self-efficacy as an independent biomedical researcher	FAC-6	<ul style="list-style-type: none"> <li>• D-FAFS</li> <li>• NRMN FUP</li> </ul>
	High self-efficacy in the ability to secure external funding	FAC-7	<ul style="list-style-type: none"> <li>• D-FAFS</li> </ul>
	Engaged in activities to secure research or research training funding	FAC-8	<ul style="list-style-type: none"> <li>• FAC</li> <li>• D-FAFS</li> <li>• NRMN FUP</li> </ul>
	Securing research or research training funding	FAC-9	<ul style="list-style-type: none"> <li>• D-FAFS</li> <li>• FAC</li> </ul>
	Evidence of scholarly productivity	FAC-10	<ul style="list-style-type: none"> <li>• FAC</li> <li>• D-FAFS</li> <li>• NRMN FUP</li> </ul>
	Evidence of professional recognition and service	FAC-11	<ul style="list-style-type: none"> <li>• FAC</li> <li>• D-FAFS</li> <li>• NRMN FUP</li> </ul>
	Strong academic and professional networks	FAC-12	<ul style="list-style-type: none"> <li>• FAC</li> <li>• D-FAFS</li> <li>• NRMN</li> </ul>
	Advancement to next career stage	FAC-13	<ul style="list-style-type: none"> <li>• FAC</li> <li>• D-FAFS</li> </ul>
	Advancement to leadership positions in biomedical research and research training	FAC-14	<ul style="list-style-type: none"> <li>• FAC</li> <li>• D-FAFS</li> </ul>
	Evidence of receiving training in areas to foster inclusive research training environments	FAC-15	<ul style="list-style-type: none"> <li>• FAC</li> </ul>
	Strong self-efficacy to act as a change agent to enhance diversity in biomedical research and research training environments	FAC-16	<ul style="list-style-type: none"> <li>• FAC</li> </ul>

Domain	Elements	Hallmarks	Data Source / Measure
	Uses evidence-based practices in teaching and mentoring	FAC-17	<ul style="list-style-type: none"> <li>• FAC</li> <li>• FAC-STEM</li> </ul>
<b>Institution</b>	Commitment to efforts that create, enhance, and/or maintain diversity and inclusion at all levels of the institution	INST-1	<ul style="list-style-type: none"> <li>• FAC</li> </ul>
	Evidence of creating, enhancing, and/or maintaining diverse, inclusive, and culturally appropriate research and research training environments	INST- 2	<ul style="list-style-type: none"> <li>• FAC</li> <li>• BUILD Case Study</li> </ul>
	Demonstrated institutional commitment to creating, enhancing, and/or maintaining the diversity of biomedical faculty on campus by recruiting a diverse pool of potential applicants	INST-3	FAC
	Implementation of sustainable institutionally supported intra-institutional activities to achieve positive outcomes related to biomedical research capacity building and faculty development	INST-4	<ul style="list-style-type: none"> <li>• FAC</li> </ul>
	Enhanced inter-institutional collaborations to achieve positive outcomes related to biomedical research, research training, and faculty development	INST-5	<ul style="list-style-type: none"> <li>• FAC</li> </ul>
	Implementation of sustainable institutionally supported activities to achieve positive outcomes related to biomedical research training	INST- 6	<ul style="list-style-type: none"> <li>• FAC</li> </ul>
	Enhancing or maintaining the diversity of students, e.g. those from nationally underrepresented groups to pursue degrees in biomedical fields	INST-7	<ul style="list-style-type: none"> <li>• Case Study Questions</li> <li>• IR Data</li> <li>• IPEDS</li> </ul>
	Demonstrated institutional commitment to efforts that sustain the interest of trainees from all backgrounds pursuing degrees in biomedical fields that increase persistence	INST-8	<ul style="list-style-type: none"> <li>• FAC</li> </ul>
	Employs evidence-based approaches to establish and attain goals for graduation rates, time-to-degree, and the ability to transition to biomedical graduate and professional degree programs for students from all backgrounds	INST-9	<ul style="list-style-type: none"> <li>• IR Data</li> <li>• IPEDs</li> </ul>
	Demonstrated institutional commitment to implementing and sustaining mentoring practices that promote the development of research- oriented students from all backgrounds	INST-10	<ul style="list-style-type: none"> <li>• Case Study</li> </ul>

Domain	Elements	Hallmarks	Data Source / Measure
	Institutional infrastructure to track regular reporting of student demographics and outcomes with respect to biomedical fields.	INST-11	• Case Study