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Vacancy 12128161 Assessment Package Announcement Applicant Overview Certificates Reviews Assessment: PEEE

USAJOBS Announcement Title: Patent Examiner (Electrical Engineering) Pay Plan-Series-Grade: GS-1224-7/9/11 Assessment ID: 102953

Assessment Information Competencies Assessment Questionnaire Screen-Out Criteria Rating Criteria Passing Score Criteria Test Plan Checklist History

## - Assessment Questionnaire (11 Items)

The following questions apply to grade levels GS-07, GS-09, and GS-11. Select the response that best describes your experience and/or education related to the basic qualification requirements of a Patent Examiner (Professional Engineering). Refer to the "Qualifications and Evaluations" section of the job announcement for a detailed explanation of the basic qualification requirements for this position. Instructions

1. \* Select the response that best describes your experience and/or education related to the Basic Qualification Requirements for a Patent Examiner (Professional Engineering), GS-1224.

Response Option

- A I have a bachelor's degree (or higher degree) in engineering. To be acceptable, the program must: (1) lead to a bachelor's degree (or higher degree) in a school of engineering with at least one program accredited by the Accreditation Board for Engineering and Technology (ABET); OR (2) include differential and integral calculus and courses (more advanced than first-year physics and chemistry) in five of the following seven areas of engineering science or physics: (a) statics, dynamics; (b) strength of materials (stress-strain relationships); (c) fluid mechanics, hydraulics; (d) thermodynamics; (e) electrical fields and circuits; (f) nature and properties of materials (relating particle and aggregate structure to properties); and (g) any other comparable area of fundamental engineering science or physics, such as optics, heat transfer, soil mechanics, or electronics.
- B I have a combination of education and experience that furnished (1) a thorough knowledge of the physical and mathematical sciences underlying engineering, and (2) a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. I am currently registered as an Engineer Intern (EI), Engineer in Training (EIT), or licensed as a Professional Engineer (PE) by any State, the District of Columbia, Guam, or Puerto Rico. Absent other means of qualifying under this standard, those applicants who achieved such registration by means other than written test (e.g., State grandfather or eminence provisions) are eligible only for positions that are within or closely related to the specialty field of their registration. For example, an applicant who attains registration through a State Board's eminence provision as a manufacturing engineer typically would be rated eligible only for manufacturing engineering positions.
- C I have a combination of education and experience that furnished (1) a thorough knowledge of the physical and mathematical sciences underlying engineering, and (2) a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. I have successfully passed the Fundamentals of Engineering (FE) examination, or any other written test required for professional registration, by an engineering licensure board in the various States, the District of Columbia, Guam, or Puerto Rico
- D I have a combination of education and experience that furnished (1) a thorough knowledge of the physical and mathematical sciences underlying engineering, and (2) a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. I have successfully completed at least 60 semester hours or 90 quarter hours of courses in the physical, mathematical, and engineering sciences that included the courses specified in A above. The courses must be fully acceptable toward meeting the requirements of an engineering program.
- E I have a combination of education and experience that furnished (1) a thorough knowledge of the physical and mathematical sciences underlying engineering, and (2) a good understanding, both theoretical and practical, of the engineering sciences and techniques and their applications to one of the branches of engineering. I have successfully completed a curriculum leading to a bachelor's degree in an appropriate scientific field, e.g., engineering technology, physics, chemistry, architecture, computer science, mathematics, hydrology, or geology, and have at least 1 year of

Response Option

professional engineering experience acquired under professional engineering supervision and guidance. Ordinarily there should be either an established plan of intensive training to develop professional engineering competence, or several years of prior professional engineering-type experience, e.g., in interdisciplinary positions. (The above examples of related curricula are not all-inclusive.)

F I will complete the qualifying education within 9 months from the date of application.

G I do not possess the education and/or experience described above.

- 2. \* Candidates for the GS-7 grade level must have at least 52 weeks of specialized experience equivalent to the GS-5 grade level in the Federal service. This means that you must have the following level of (federal or non-federal) specialized experience. Specialized experience for this position is defined as experience performing at least one of the following functions: (1) Interpreting and applying basic electrical engineering and/or scientific principles, theories, concepts, and methodologies used in the evaluation of technology; (2) Planning and conducting technical research to draft technical papers; or (3) Applying appropriate references and case law to claimed inventions. Select the response which best describes your specialized experience requirements as defined in the statement above.

Response Option

A I have at least one year of specialized experience equivalent to the GS-5 grade level in the Federal service as defined in the statement above.

B I have a bachelor's degree or anticipate completion of a bachelor's degree in an engineering curriculum and superior academic achievement demonstrated by my grade point average (GPA). I have a GPA of 2.95 or higher out of a possible 4.0 as recorded on my transcripts based on 4 years of education, or as computed based on courses completed during the final two years of the curriculum.

C I have a bachelor's degree or anticipate completion of a bachelor's degree in an engineering curriculum and superior academic achievement demonstrated by my grade point average (GPA). I have a GPA of 3.45 or higher out of a possible 4.0 based on the average of the required courses completed in my major field during the final two years of the curriculum.

D I have a bachelor's degree or anticipate completion of a bachelor's degree in an engineering curriculum and superior academic achievement demonstrated by (1) My class standing in the upper third of my class or major university subdivision OR (2) My election to membership in a national scholastic honor society.

E I do not have education leading to a bachelor's degree and/or at least one year of specialized experience equivalent to the GS-5 grade level in the Federal service as defined in the statement above.

- 3. \* Candidates for the GS-9 grade level must have at least 52 weeks of specialized experience equivalent to the GS-7 grade level in the Federal service. This means that you must have the following level of (federal or non-federal) specialized experience. Specialized experience for this position is defined as experience performing at least one of the following functions: (1) Interpreting and applying intermediate electrical engineering and/or scientific principles, theories, concepts, and methodologies used in the evaluation of technology; (2) Planning and conducting technical research to draft technical papers; or (3) Applying appropriate references and case law to claimed inventions. Select the response which best describes your specialized experience requirements as defined in the statement above.

Response Option

A I have at least one year of specialized experience equivalent to the GS-7 grade level in the Federal service as defined in the statement above.

B I have a combination of education and experience. I possess at least a bachelor's degree in engineering AND have experience applying engineering principles and theories in the engineering field.

C I have at least two years of graduate level education leading to a master's degree or equivalent graduate degree in an engineering curriculum from an accredited college and/or university in the fields of study as described in the Basic Qualification Requirements of this job announcement. One year of full-time graduate education is considered to be the number of credit hours that the school attended has determined to represent 1 year of full-time study (If that number cannot be obtained from the school, 18 semester hours is considered an academic year of graduate study).

D

Response Option

I have less than the full amount of education described in "C" above and less than the amount of experience described in "A" above, but have a combination of the type of graduate education described in "C" above and experience described in "A" above.

E I do not have at least one year of specialized experience equivalent to the GS-7 grade level in the Federal service as defined in the statement above.

- 4. \* Candidates for the GS-11 grade level must have at least 52 weeks of specialized experience equivalent to the GS-9 grade level in the Federal service. This means that you must have the following level of (federal or non-federal) specialized experience. Specialized experience for this position is defined as experience performing at least one of the following functions: (1) Interpreting and applying advanced electrical engineering and/or scientific principles, theories, concepts, and methodologies used in the evaluation of technology; or (2) Planning and conducting technical research to draft technical papers; or (3) Applying appropriate references and case law to claimed inventions. Select the response which best describes your specialized experience requirements as defined in the statement above.

Response Option

A I have at least one year of specialized experience equivalent to the GS-9 grade level in the Federal service as defined in the statement above.

B I have a combination of education and experience. I possess at least a bachelor's degree in engineering AND have experience applying engineering principles and theories in the engineering field.

C I have at least three years of progressively higher level graduate education leading to a Ph.D degree or Ph.D or equivalent doctoral degree in an engineering curriculum from an accredited college and/or university in the fields of study as described in the Basic Qualification Requirements of this job announcement. One year of full-time graduate education is considered to be the number of credit hours that the school attended has determined to represent 1 year of full-time study (If that number cannot be obtained from the school, 18 semester hours is considered an academic year of graduate study).

D I have less than the full amount of education described in "C" above and less than the amount of experience described in "A" above, but have a combination of the type of graduate education described in "C" above and experience described in "A" above.

E I do not have at least one year of specialized experience equivalent to the GS-9 grade level in the Federal service.

- YOUR RESPONSES TO THE FOLLOWING QUESTIONS MUST BE SUPPORTED IN YOUR RESUME AND/OR TRANSCRIPT(S). FAILURE TO SUPPORT YOUR ANSWER(S) IN YOUR RESUME AND/OR TRANSCRIPT(S) MAY IMPACT YOU OR ELIMINATE YOU FROM CONSIDERATION. RESPONSES OF "NA" OR "SEE RESUME AND/OR TRANSCRIPTS" TO THE BELOW QUESTIONS MAY CAUSE YOU TO LOSE CONSIDERATION.

Instructions

- This statement is a list of relevant technical areas. Please refer to them in order to respond to the questions following these listed areas: / Amplifiers/ Antennas / Battery or Capacitor Charging or Discharging / Biopsy and Body Liquid Sampling, Anatomical Characteristics and Body Movement; Guidewires / CAD, Circuit Analysis and Semiconductor Masks / Cardiac Augmentation, Detecting Heart Signals, Monitoring Plural Physiologic Data / Compression/ Decompression / Computer System Initialization, Power Control, Clocking and Synchronization / Conductors and Insulators / Control Systems / Data Processing: Vehicles, Navigation, and Relative Location / Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio / Digital Cameras / Directive Radio Wave Systems and Devices / e-Cigarettes/ Electrical Connectors / Electrical Generator or Motor Structure / Electric Heating: Induction, Capacitive, Microwave, Resistive, Laser, Arc, and Metal Heating tools / Electrical Housing / Electrical Power Distribution and Cooling / Electrostatic Capacitors / Eye Examining, Vision Testing and Correcting / Image Analysis and Signal Processing / Lasers / Measuring and Testing / Medical Radiation, Magnetic, Electromagnetic, Incontinence, Relaxation and Fertilization Therapies / Memory / Multiplex, Telecommunications, 5G, Wireless Communications, Routing, Switching, Access Techniques, Cellular and Data Communications / Network Security/ Optical Waveguides / Optics - Measuring and Testing / Optics - Systems and Elements / Power Conversion Systems, Power Supply or Regulation Systems / Power Electronics - Safety and Protection / Radiant Energy - Charged Particles / Robot Control / Semiconductor Devices and Methods thereof / Structural Modeling and Simulation / Varied Diagnostics including Cardiovascular, Respiratory, Electroanalysis & Light Analyte Testing / Vehicle Control and Navigation: Autonomous/Semi-autonomous Vehicles, Vehicle Control/Guidance System / Video Compression / Wave Transmission Lines and Networks

Instructions

–  5. \* Do you possess any experience and/or education in conducting research, analysis, and application of scientific principles associated with any of the technical areas listed above. Technical

Select "Yes" or "No" to the following question(s).

Response Option

A Yes

B No

–  6. \* If you answered "Yes" to the previous Assessment Question #5, please select those technical area(s) below in which you have experience and/or education conducting research, analysis, and application of scientific principles. Please select all that apply. Technical

Response Option

A Amplifiers

B Antennas

C Battery or Capacitor Charging or Discharging

D Biopsy and Body Liquid Sampling, Anatomical Characteristics and Body Movement; Guidewires

E CAD, Circuit Analysis and Semiconductor Masks

F Cardiac Augmentation, Detecting Heart Signals, Monitoring Plural Physiologic Data

G Compression/Decompression

H Computer System Initialization, Power Control, Clocking and Synchronization

I Conductors and Insulators

J Control Systems

K Data Processing: Vehicles, Navigation, and Relative Location

L Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio

M Digital Cameras

N Directive Radio Wave Systems and Devices

O e-Cigarettes

P Electrical Connectors

Q Electrical Generator or Motor Structure

Response Option

R	Electric Heating: Induction, Capacitive, Microwave, Resistive, Laser, Arc, and Metal Heating tools
S	Electrical Housing
T	Electrical Power Distribution and Cooling
U	Electrostatic Capacitors
V	Eye Examining, Vision Testing and Correcting
W	Image Analysis and Signal Processing
X	Lasers
Y	Measuring and Testing
Z	Medical Radiation, Magnetic, Electromagnetic, Incontinence, Relaxation and Fertilization
AA	Memory
AB	Multiplex/Telecommunications/5G/Wireless Communications/Routing/Switching/Access Techniques/Cellular and Data Communications
AC	Network Security
AD	Optical Waveguides
AE	Optics - Measuring and Testing
AF	Optics - Systems and Elements
AG	Power Conversion Systems, Power Supply or Regulation Systems
AH	Power Electronics - Safety and Protection
AI	Radiant Energy - Charged Particles
AJ	Robot Control
AK	Semiconductor Devices and Methods thereof
AL	Structural Modeling and Simulation
AM	Vehicle Control and Navigation: Autonomous/Semi-autonomous Vehicles, Vehicle Control/Guidance Systems
AN	Varied Diagnostics including Cardiovascular, Respiratory, Electroanalysis & Light Analyte Testing

Response Option

- AO Video Compression
- AP Wave Transmission Lines and Networks
- AQ None of the above

7. \* Please indicate where in your resume and/or transcript(s) is this technical experience or education conducting research, analysis, and application of scientific principles as selected described in the previous Assessment Question #6. To receive full credit, be sure to include specific information/examples of conducting research, analysis, and application of scientific principles If you answered "None of the above" in the previous Assessment Question #6, type N/A.

–  8. \* Select the choice that describes your highest level of experience and/or education orally communicating with a wide variety of audiences (for example, professors, clients, patent professionals, superiors, or subordinates) on applying basic electrical engineering principles and concepts. Oral Communication

Response Option

- A I have participated in meetings/interviews to collect or disseminate technical information from a variety of audiences in the advancement of electrical engineering principles and concepts.
- B I have facilitated discussions on the advancement of electrical engineering principles and concepts.
- C I have presented technical and/or legal information to a variety of audiences by conveying the results of research findings, analysis, rationale, and/or evaluation/conclusions of fact (for example, through a research project as part of my coursework, work project, capstone project, or thesis studies) in the application of electrical engineering principles and concepts.
- D I have written technical or legal documents related to electrical engineering principles and concepts.
- E I do not have experience and/or education orally communicating with a wide variety of audiences on applying basic electrical engineering principles and concepts.

9. \* Please indicate where in your resume and/or transcript(s) is this level of oral communication experience or education as selected in the previous Assessment Question #8. To receive full credit, be sure to include specific information/examples of the electrical engineering principles and concepts, and how this information was presented. If you do not have the oral communication experience/education, type N/A.

–  10. \* Select the responses that best describe your experience and/or education communicating in writing to develop documents related to electrical engineering principles and concepts. Check all that apply; Written Communication

Response Option

- A I have prepared a formal written product for a capstone or other research project in the electrical engineering field.
- B I have written reports, letters or memoranda related to electrical engineering principles and concepts where I translated complex technical language for review by non- technical audiences.
- C I have drafted patent applications related to electrical engineering principles and concepts for clients or professionals in the intellectual property community.
- D I have written technical or legal documents related to electrical engineering principles and concepts.
- E I do not have experience and/or education communicating in writing to develop work products related to electrical engineering principles and concepts.



1. \* Please indicate where in your resume or transcript(s) is this level of written communication experience and/or education as selected in the previous Assessment Question #10. To receive full credit, be sure to include specific information/examples of the electrical engineering principles and concepts, and how this information was presented. If you do not have the written communication experience and/or education, type N/A.