

Modeling and Simulation Analyst

Department of Air Force
Joint Warfare Analysis Center

Open & Closing Dates

6/4/2021-7/6/2021

Service

Competitive

Pay Scale & Grade

DR-I

Salary

\$53,351 to \$102,433 per year

Appointment Type

Permanent

Work Schedule

Full-Time

Location

3 vacancies at the following location:

Joint Warfare Analysis Center

[1] Information Effects Directorate (JE), Theater Effects Division (JE2)

[2] Information Effects Directorate (JE), Contested Systems Division (JE3)

[3] Information Effects Directorate (JE), Tactical Edge Division (JE4)

Dahlgren, VA

Relocation Expenses

Relocation expenses or relocation incentives as described in 5 USC 5753 may be authorized in accordance with applicable travel regulations.

Telework

Situational, as determined by JWAC policy and supervisor

This job is open to

The public – U.S. citizens

Announcement Number

JWAC-21-JE-021

Duties

Summary

This is a public notice flyer to notify interested applicants of anticipated vacancies. Applications will not be accepted through this flyer. Interested applicants must follow the directions in the "How to Apply" section of this flyer to be considered. There may or may not be actual vacancies filled from this flyer. Notice of Result letters will not be sent to applicants who respond to this flyer.

Responsibilities:

- Conduct modeling and simulation of systems, networks, and nodes. When given an operational, planning, or exercise objective, the analyst will determine appropriate modeling and simulation methods to achieve the given objective within the constraints of available data and time. As required, utilize Python, R, and other tools to develop custom models for analysis.
- Evaluate models to ensure they are an accurate representation of the real-world problem, filling information shortfalls using scientific, engineering and/or operations research principles. The analyst will conduct detailed network analysis to identify critical elements (i.e., an element of an entity or object which enables it to perform its primary function) and vulnerabilities within the system, network, node, or component.
- The analyst will operate independently and as part of a multi-disciplinary team and collaborates with engineers, scientists, and customers to create high-valued targeting products. Periodically the analyst is expected to participate in a multi-disciplinary analysis team, performing the full range of project management responsibilities. The analyst will develop plans of action to include: milestone scheduling and required coordination with other organizations and activities; options for further study and experimentation; concepts development, solutions assessment, rapid evaluation of alternatives, experimentation, and coordinating support from other groups within the organization; plans for operational experimentation and analysis; and manpower and funding recommendations.
- Prepare, produce and deliver timely, relevant, and technically accurate targeting products including the respective methodologies, assumptions, conclusions, and recommendations to the customer. Prepare and deliver comprehensive, formal and informal briefings to customers and command senior leadership. Present and defend methodologies and analytical results within and outside of the command. Document any new or improved development, concepts, techniques, etc. Provide mathematical modeling support to other analysts, scientists, engineers, managers, contractors, and other collaborative partners as directed.
- Explore, develop, evaluate and/or operationalize new technologies and capabilities to improve analytical quality, technical content, presentation and delivery of targeting products. Develop innovative and useful approaches for improving or expanding methodologies, models, products and services, including technically advancing the rigor of products using advanced analytical methods and structured problem-solving techniques. Improve business processes and reduce product cycle times, without sacrificing technical rigor or quality. Identify and apply best practices from government, industry or academia to strengthen JWAC's analytical position.
- Build effective collaborative networks and alliances with key peers and stakeholders across the Operations and Intelligence Communities. Actively engage these peers and stakeholders, involve them in key tasks and decisions, and effectively leverage the social networks and alliances to achieve value-added results. Represent the command externally to foster collaboration and promote understanding of the command, its mission and respective capabilities. Collaborate across discipline and organizational boundaries to achieve and/or enhance organization efficiencies.

Travel Required

Occasional travel – You may be expected to travel for this position.

Supervisory Status

No

Promotion Potential

DR-II

Job Family (Series)

801 General Engineer

1515 Operations Research Analyst

1550 Computer Scientist

Requirements**Conditions of Employment:**

- Must be a U.S. Citizen.
- Incumbent must have or be capable of obtaining and retaining a Top Secret/SCI security clearance.
- This position has been designated by the Air Force as a Testing Designated Position (TDP) under the Air Force Civilian Drug Testing program. The incumbent is subject to random testing for drug use.
- Position is subject to polygraph testing.
- Must be determined suitable for federal employment.
- Must participate in the direct deposit pay program.
- New employees to the Air Force will be required to successfully pass the E-Verify employment verification check. To learn more about E-Verify, including your rights and responsibilities, visit e-verify.gov.
- Males born after 12-31-59 must be registered for Selective Service.
- Within the Department of Defense, the appointment of retired military members within 180 days immediately following retirement date to a civilian position is subject to the provisions of 5 United States Code 3326.

Qualifications

Only applicants who meet the area of consideration are eligible to apply for this job. In order to qualify for this position, you must meet the basic education and/or specialized experience requirements. For DR-I: Your resume must demonstrate at least one year of specialized experience at or equivalent to the GS-5 grade level. Specialized Experience is defined as work in the private or public sector performing duties in or related to the work of the position being filled.

BASIC REQUIREMENTS for 0801:

<https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/0800/general-engineering-series-0801/>

BASIC REQUIREMENTS for 1515:

<https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/1500/operations-research-series-1515/>

BASIC REQUIREMENTS for 1550:

<https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/1500/computer-science-series-1550/>

For all positions, individuals must have experience demonstrating each of the competencies listed below:

- Knowledge of modeling and simulation tools and methods.
- Ability to conduct research and manipulate computer data to produce reports and perform complex analyses.
- Ability to utilize full suite of information technology (computer programs/software, databases and automated tools) to satisfy job requirements.
- Ability to recognize and use correct grammar, punctuation, and spelling; write in proper formats to meet informational needs; communicate information (e.g., facts, ideas) in a succinct and organized manner; and produce technical written information.
- Ability to effectively express information (e.g., ideas, facts) to individuals or groups, taking the audience into account, as well as the nature of the information (e.g., technical, sensitive, controversial); make clear and convincing oral presentations; listen to others, attend to nonverbal cues, and respond accordingly.
- Ability to analyze information and make correct inferences or draw accurate conclusions; determine accuracy and relevance of information; use sound judgment to generate and evaluate alternatives; and make recommendations.
- Ability to develop new insights into situations, apply innovative solutions to complex problems, and design new methods where established methods and procedures are not applicable or are unavailable.
- Strong mathematics skills (e.g., statistics, algebra).
- Knowledge of the development languages with a preference for Python and R.

Additional qualification information can be found from the following Office of Personnel Management web site: <https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/#url=List-by-Occupational-Series>

Experience refers to paid and unpaid experience, including volunteer work done through National Service programs (e.g., professional, philanthropic, religious, spiritual, community, student, social). Volunteer work helps build critical competencies, knowledge, and skills and can provide valuable training and experience that translates directly to paid employment.

Education

See above in Qualifications for Basic Requirements.

IF USING EDUCATION TO QUALIFY: You **MUST** provide transcripts to support your educational claims. Education must be accredited by an accrediting institution recognized by the U.S. Department of Education.

FOREIGN EDUCATION: Education completed in foreign colleges or universities may be used to meet the requirements. You must show proof the education credentials have been deemed to be at least equivalent to that gained in conventional U.S. education program. It is your responsibility to provide such evidence when applying

While unofficial transcripts are acceptable for initial application, an official transcript will ultimately be required if you are selected for the position. You may submit a copy of your degree(s) if specific coursework does not have to be verified.

Background Checks & Security Clearance

- Incumbent must have or be capable of obtaining and retaining a Top Secret/SCI security clearance.
- This position has been designated by the Air Force as a Testing Designated Position (TDP) under the Air Force Civilian Drug Testing program. The incumbent is subject to random testing for drug use.
- Position is subject to polygraph testing.

How You Will be Evaluated & Documentation Required

In order to qualify for this position, your resume must provide sufficient experience and/or education, knowledge, skills, and abilities to perform the duties of the specific position for which you are being considered.

Your resume is the key means we have for evaluating your skills, knowledge, and abilities as they relate to this position. Therefore, we encourage you to be clear and specific when describing your experience. You should list any relevant performance appraisals and incentive awards in your resume as that information may be taken into consideration during the selection process. If selected, you may be required to provide supporting documentation. Your resume must show relevant experience, job title, duties and accomplishments. Your resume must show complete information for each job entry to support minimum qualifications. The following information should be provided in your resume, but it is acceptable to provide elsewhere in your application package: employer's name, starting and end dates (Month/Year), hours per week, and pay plan, series and grade level (e.g. GS-0201-09) for relevant federal experience.

Are you claiming membership in any professional organizations, or possession of a license, certificate or credentials? Check the Conditions of Employment section above to see if any are required. If you claim membership, license, certification, or credentials, you must submit a copy of said document in your application package.

As vacancies occur, the Human Resources Office will review your resume to ensure you meet the hiring eligibility and qualification requirements listed in this flyer. You will be rated based on the information provided in your resume, along with your supporting documentation.

If selected, you may be required to provide additional supporting documentation.

If after reviewing your resume and supporting documentation, a determination is made that you inflated your qualifications and/or experience, you may be found ineligible/not qualified.

Please follow all instructions carefully. Errors or omissions may affect your rating or consideration for employment.

All eligibility, qualification requirements, or other requirements must be met by the closing date of this announcement to be considered for any vacancies.

Are you an active duty service member? Active Duty Service Members are required to submit a statement of service printed on command letterhead and signed by the command. The statement of service must provide the branch of service, rate/rank, all dates of service, the expected date of discharge and anticipated character of service (Honorable, General, etc.).

Documents submitted as part of the application package, to include supplemental documents, may be shared beyond the Human Resources Office. Some supplemental documents contain personal information such as SSN and DOB and some documents such as military orders and marriage certificates may contain personal information for someone other than you. You may sanitize these documents to remove said personal information before you submit your application. You must provide an un-sanitized version of the documents if you are selected.

Benefits

A career with the U.S. Government provides employees with a comprehensive benefits package. As a federal employee, you and your family will have access to a range of benefits that are designed to make your federal career very rewarding. [Learn more about federal benefits.](#)

How to Apply

Interested employees are required to submit (1) a resume not to exceed 4 pages and (2) a written response not to exceed 2 pages addressing how you meet the qualifications and competencies required and why you wish to be considered for the position, to JL1 Talent Acquisition and Compensation Branch, stratcom.south-potomac.jwac.list.jwac-jobs@mail.mil

by midnight of the closing date. Applications will be rated, and top candidates may be interviewed for selection.

Failure to submit a complete application package will result in an ineligible rating and loss of consideration.

Fair & Transparency

The Federal hiring process is setup to be fair and transparent. Please read the following guidance.

Equal Opportunity Employment Policy: The United States Government does not discriminate in employment on the basis of race, color, religion, sex (including pregnancy and gender identity), national origin, political affiliation, sexual orientation, marital status, disability, genetic information, age, membership in an employee organization, retaliation, parental status, military service, or other non-merit factor.

- [Equal Employment Opportunity \(EEO\) for federal employees & job applicants](#)

Reasonable Accommodation Policy

Federal agencies must provide reasonable accommodation to applicants with disabilities where appropriate. Applicants requiring reasonable accommodation for any part of the application process should follow the instructions in the job opportunity announcement. For any part of the remaining hiring process, applicants should contact the hiring agency directly. Determinations on requests for reasonable accommodation will be made on a case-by-case basis.

A reasonable accommodation is any change to a job, the work environment, or the way things are usually done that enables an individual with a disability to apply for a job, perform job duties or receive equal access to job benefits.

Under the Rehabilitation Act of 1973, federal agencies must provide reasonable accommodations when:

- An applicant with a disability needs an accommodation to have an equal opportunity to apply for a job.
- An employee with a disability needs an accommodation to perform the essential job duties or to gain access to the workplace.
- An employee with a disability needs an accommodation to receive equal access to benefits, such as details, training, and office-sponsored events.

You can request a reasonable accommodation at any time during the application or hiring process or while on the job. Requests are considered on a case-by-case basis.

Learn more about [disability employment and reasonable accommodations](#)

[\(https://www.opm.gov/policy-data-oversight/disability-employment/reasonable-accommodations/\)](https://www.opm.gov/policy-data-oversight/disability-employment/reasonable-accommodations/)

Other Information:

- This position is covered by the Department of Defense Priority Placement Program.
- Additional vacancies may be filled by this announcement.
- A tentative offer of employment will be rescinded if the selectee fails to meet the pre-employment requirements, including failure to report to any of the scheduled appointments.
- Relocation/recruitment bonus may or may not be authorized, if eligible.
- Relocation expenses (i.e., PCS) may or may not be authorized, if eligible.
- Vacancies filled from this announcement may be filled at any broadband level listed.
- If selected below the full performance level, you may be noncompetitively promoted to the next higher broadband level after meeting all regulatory requirements, and upon the recommendation of management. Promotion is neither implied nor guaranteed.

Legal & Regulatory Guidance

Financial suitability

[\(https://www.usajobs.gov//Help/working-in-government/fairand-transparent/financial-suitability/\)](https://www.usajobs.gov//Help/working-in-government/fairand-transparent/financial-suitability/)

Social security number request

[\(https://www.usajobs.gov//Help/working-in-government/fairand-transparent/social-security-number/\)](https://www.usajobs.gov//Help/working-in-government/fairand-transparent/social-security-number/)

Privacy Act

[\(https://www.usajobs.gov//Help/working-in-government/fairand-transparent/privacy-act/\)](https://www.usajobs.gov//Help/working-in-government/fairand-transparent/privacy-act/)

Signature & False statements

[\(https://www.usajobs.gov//Help/working-in-government/fairand-transparent/signature-false-statements/\)](https://www.usajobs.gov//Help/working-in-government/fairand-transparent/signature-false-statements/)

Selective Service

[\(https://www.usajobs.gov//Help/working-in-government/fairand-transparent/selective-service/\)](https://www.usajobs.gov//Help/working-in-government/fairand-transparent/selective-service/)