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Modeling and Simulation Engineer II

Job number:
JO2024-10029

Join Exigent Services as Modeling & Simulation Engineer II and be part of a dynamic team that supports the U.S. Cyber Command (USCYBERCOM) Directorates in Fort Meade, MD with subject matter expertise in the areas of joint cyberspace operations planning, policy, strategy, and doctrine development, wargames and exercises, operations research, international and integration support, and cyber intelligence operations.

The Modeling & Simulation Engineer will:

- **Provide modeling and simulation functions or operations such as, but not limited to, exercises, plans, coordination, demonstrations, and instruction.**
- **Design seminar, war games, and cyber exercise scenarios, and actively participates to assess the effectiveness of USCYBERCOM existing capabilities as well as new concepts, methods, and tools.**
- **Develop and employ modeling and simulation decision support tools to map and analyze resource planning and policy decisions by participants during war game events on future cyberspace capabilities and tools.**
- **Identify and modify existing modeling and simulations tools to meet war game analytical objectives and support model-run analysis during the events and post-execution.**
- **Conduct without guidance modeling and simulation functions or operations such as, but not limited to, exercises, plans, coordination, demonstrations, and instruction.**
- **Contribute substantive content to design seminars, war games and cyber exercise scenarios, and actively participate to assess the effectiveness of USCYBERCOM existing capabilities as well as new concepts, methods, and tools.**
- **Develop and employ modeling and simulation decision support tools, without guidance.**

The Modeling Simulation Engineer will have:

- **Active TS/SCI clearance, upon application; willingness to take a polygraph exam.**
- **BA or BS degree**
- **5+ years of experience in the direct application of M&S work.**
- **Experience in statistical and general-purpose programming languages for M&S and data analysis, such as Python and R.**
- **Experience conducting qualitative and quantitative analysis in support of developing predictive data models.**
- **Knowledge of simulation software, such as MATLAB, or specialized cybersecurity simulation tools necessary for developing realistic threat scenarios.**

Hiring organization
Exigent

Job Location
USA

Date posted
February 20, 2024

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- IA-T2 Certification, such as CCNA-Security, CySA+, GICSP, GSEC, Security+CE, CND, or SSCP.

Preferred Qualifications:

- Experience with M&S in support of military applications, including the use of tools, such as AFSIM.
- Knowledge of defense or intelligence data sources and analytic tools.

- Knowledge of cyber operations, cyber force structure, cyber threats, or cyber wargaming.
- Knowledge of cybersecurity principles, including threat vectors, vulnerabilities, and defense mechanisms, for analyzing cyber threats.
- Knowledge of AI/ML tools and techniques.
- Ability to work both collaboratively and independently.
- Possession of excellent verbal and written communication skills.
- Active TS/SCI clearance with a polygraph, upon application.
- Master's degree in Statistics, Mathematics, or Engineering.

Compensation

Exigent Services offers a comprehensive compensation package including: 401K, health, vision, dental, and life/disability insurance.

Company Overview:

Exigent Services is a full-scope management consulting company that is ready "ON DEMAND" to offer a range of experts, technologies, cutting-edge teams of consultants, and strategic solutions and systems. With over 40 years of Federal Services, Exigent's core competencies include: Planning Services, Cyberspace Exercise, Cyberspace Policy, Professional Services, Leadership Development, Training, Strategic Planning, and Human Capital Management.

EEO Commitment:

We're an equal employment opportunity/affirmative action employer that empowers our people to fearlessly drive change – no matter their race, color, ethnicity, religion, sex (including pregnancy, childbirth, lactation, or related medical conditions), national origin, ancestry, age,marital status, sexual orientation, gender identity and expression, disability, veteran status, military or uniformed service member status, genetic information, or any other status protected by applicable federal, state, local, or international law.