



**POSITION:** Junior Cognitive Systems Engineer

**POSITION AVAILABLE:** Immediate openings

**NUMBER OF POSITIONS:** 1-2

**LEADER:** William Elm

**SALARY RANGE:** Competitive and commensurate with experience

**LOCATION:** Work will be performed remotely during the COVID-19 pandemic. Relocation to Pittsburgh, PA or College Station, TX possible in the future, contingent on evolving customer requirements and company policies a plus.

**CITIZENSHIP:** Due to nature of the work performed within our facility, U.S. Citizenship is Required.

Do others recognize you as a gifted intellect?

Do you have an interest in doing important work with a purpose as part of an elite team?

We invite a discussion to better understand what we do and how you might become a part of our team.

*We simplify complex decision environments.*

We operate at the cutting edge of the human - machine interface. Big data can mean data overload and complexity. Our team simplifies decision making in complex, high stakes environments. Overloaded analysts require powerful, robust decision support environments to solve critical, time-pressured situations. We are masters at enabling advanced decisions.

We seek talented people with engineering and / or psychology degree programs with an interest in the rapidly growing field of cognitive systems engineering. Our team includes engineers, data scientists, cognitive psychologists, software developers, human-factors specialists, and visual designers.

We operate in a team- based organization where we bring these disciplines together and use our codified 35 years of decision support science in a methodology that cuts through complexity in the most challenging environments. We thrive in complex environments!

Resilient Cognitive Solutions is growing to support the development of a unique new laboratory for research and development in human-machine ecosystems and experiential learning environments. The creation of this laboratory has generated new career opportunities and immediate openings for Learning Engineers and Learning Experience Designers. If you are excited about the prospect of creating compelling instructional capabilities and curricula that help people simplify decision making in mission-critical and business-critical situations, this is your opportunity to become a member of an elite team of passionate people who can see beyond the obvious to create and build revolutionary solutions for clients.

At RCS, our Cognitive Systems Engineer (CSE) Team builds revolutionary information systems that directly support decision making for the military and private sector. Our projects are executed by creating both the concept and detailed designs for these systems. Our CSE team first analyzes the work domain through cognitive work analysis to reveal functional insights, which then serves as the cornerstone for the project. By focusing on the design of human-machine systems, our CSEs ensure that the systems work for decision makers. Our CSEs also work close with our talented group of software developers, providing specifications of information, visualization, and functionality requirements as guidance for their system development efforts.

**KEY WORDS:** Artificial Intelligence, Cognitive Computing, Cognitive Modeling/Analysis, Graphical User Interface Design, Human Computer Interaction/Interfaces, Usability Testing, User Center Design, UI/UX, Experiential Learning, Learning Design

## REQUIREMENTS:

- BS, MS, or PhD in Industrial Engineering, Human Computer Interaction, Human Factors Engineering, Psychology, related field, or equivalent experience.
- 1-3+ years of experience analyzing, designing, and evaluating Decision Support Systems.
- Substantial knowledge /training in Cognitive Engineering and human-machine interfaces (HMI):
  - Knowledge of state-of-the-art research in these areas.
  - Publications in these areas highly desirable.
- Excellent communication skills (oral, written).
- Can work and achieve goals in a group.
- Excellent analytic, problem definition, and problem-solving skills, including:
  - analyzing a problem domain and to distilling core decision-making processes and challenges; often from rich, semi-articulated problem domains,
  - identifying and adapting applicable technologies found in academic and industrial research,
  - creating/inventing innovative human-machine interface approaches and to translate them into successful decision-support solutions.

## RESPONSIBILITIES:

- Perform cognitive task analysis efforts to provide critical analytical basis for subsequent design.
- Create and prototyping innovative and useful GUI designs for these complex domains.
- Perform iterative evaluations of system prototypes and operational evaluations of fielded decision support systems.
- Analyze advanced visualizations for the underlying decision support being provided.
- Work as part of a multidisciplinary team, under the supervision of Senior and Principal Cognitive Systems Engineers.
- Communicate directly with customers and subject matter experts.
- Have knowledge of contemporary learning theory and best practices in learning design and engineering for experiential learning.

**SUBMIT RESUME TO:** [careers@resilientcognitivesolutions.com](mailto:careers@resilientcognitivesolutions.com)

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