

charles river analytics

Job Description

Job Title: Scientist – Socio-Cognitive Systems

Reports To: Scientist / Principal Investigator on large and small projects

Summary: This is an exciting opportunity for an entrepreneurial-minded individual with an interest in developing cutting-edge solutions to America's most challenging problems. Charles River Analytics is an applied research and development (R&D) small business that thrives on developing new ideas to address user needs and advance the state-of-the-art of software support for the US Government (e.g., Department of Defense, Department of Transportation, NASA). **You know those cool software projects coming out of places like DARPA or various military labs?** That's what we work on! We have a number of upcoming projects that involve **Augmented and Virtual Reality** for which we are seeking your scientific and technical leadership.

You will work with our science and software teams to determine the requirements for a range of different problems and domains, to conceptualize innovative and scientifically-rigorous methods for solving those problems, to design cognitively- and perceptually-based interfaces (on mobile, traditional, AR, and VR displays) to empower end-users, and to assist in implementing these designs in software. You will also support evaluation of research ideas (both empirical and qualitative) and document your results in a form suitable for peer-reviewed publication. You will need to be able to quickly read and understand scientific papers in new domains, and apply previous research to create new designs, while remaining abreast of current design trends, scientific advances, and software development practices. This position is one that is best suited to an independent thinker with an entrepreneurial drive, as there will be significant opportunity to define your own areas of specialization through generation of novel proposals to develop awesome technical solutions as you grow into your role.

Major Responsibilities/Activities:

- Analyze and design visual representations for complex problems
- Analyze and design novel interactions and display symbologies for augmented and virtual reality environments
- Pursue novel applications of technologies to address challenging real-world problems, including establishing new areas of research
- Contribute to proposals, reports and papers, and present work at briefings and conferences when appropriate
- Conduct technical discussions with customers guided by a Principal Investigator
- Work with software engineers in developing technology solutions
- Interact with customers, users, and domain experts to analyze and understand challenges

Minimum Qualifications:

- Bachelor's degree in Human Factors Engineering, Human-Computer Interaction, Cognitive Science/Psychology, or a related field (e.g., Computer Science with HCI or Interaction Design focus)
- Demonstrated ability to lead innovative, self-directed research, manage relationships with customers and users, and identify and pursue emerging opportunities
- Ability to apply scientific theories to user needs and work well with a software engineering team to define the direction of technical solutions
- Ability to translate business and engineering requirements into intuitive and efficient front-end user interfaces
- Ability to identify and articulate creative and technically-sound solutions to challenging scientific and operational human-machine system problems
- Proven ability to generate proposals, publications, or similar written materials
- Strong verbal and written skills to support proposal writing, interaction with customers, and presentations at technical conferences
- Intermediate to advanced skills in Adobe Creative Suite
- Portfolio showcasing execution of concepts and creative solutions in graphic design examples

Candidates with the following qualifications will be highly considered:

- Master's or PhD in Human Factors Engineering, Human-Computer Interaction, Cognitive Science/Psychology, or a related field (e.g., Computer Science with HCI or Interaction Design focus)
- 2 or more years of relevant experience
- A record of publications in any of the above fields
- Experience with augmented and virtual reality technologies and standards
- Military experience
- Experience directly interacting with customers and/or users, including knowledge elicitation experience
- A current security clearance

Benefits:

Charles River Analytics offers competitive compensation plus bonus with an attractive benefits package including: up to 90% employer-paid medical and 100% employer-paid dental, vision, life and disability insurance, profit sharing, paid maternity/paternity leave, tuition reimbursement, monthly gym allowance, free parking, generous paid time off, and a casual environment. We are also accessible by public transportation.

Candidates should have a demonstrated capability to work both independently and effectively within a team environment, and will be expected to interact with and present to clients. Writing and design samples may be requested. The selected candidates may need to obtain a government security clearance, therefore US citizenship is required.

Charles River Analytics is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religious creed, national origin, sex, sexual orientation, military service, veteran status, age, ancestry, genetic information, gender identity and expression or disability.