

DebriefScope (DS) Preeminent University of Central Florida Postdoctoral Scholar Job Description

Our project team is looking for a Postdoctoral Scholar to co-lead a five-year national research study to work with coaches in mathematics and science creating a validated toolkit for tagging the performance of special education teachers in urban and rural settings. The project team will develop an open-educational resource analytical tool for coaches to tag, observe, and gather biometric data aligned with high leverage practices. The study also will provide coaches and teacher with a DS toolkit of resources in partnership with the IRIS Center that provides a personalized and individualized professional development model. The post-doctoral scholar will support, direct, and lead aspects of this project with our dynamic and innovative team for potentially 5 years. The 12-month fulltime position has a salary of \$60,000, which includes benefits and a one-time \$5000 budget for professional development activities. The position also provides funds to travel to research sites and needed technology to support the overall project. The project will scale from 1 school in year 1; 3 schools in year 2; 4 new schools in years 3 and 4; and 10 new sites in year 5.

Responsibilities:

- √ Plan and design research experiments, establishing priorities and recommending schedules, time tables and costs.
- √ Serve as a liaison to the site-based schools and UCF research team in research, professional development, technology, and data analysis
- √ Manage research and site-based teams, including regular travel to school sites (funding for travel is provided)
- √ Create timelines for study procedures
- √ Design and perform experimentally controlled studies in site-based schools
- √ Ensure all research project protocols are followed and delivered according to timelines, including grant reporting requirements
- √ Understand basic aspects of technology for coding data, video analysis, and video observation in working in collaboration with experts of a dynamic computer science team
- √ Understand basic biometric data collection in working with teachers
- √ Have ability to analyze multi-modal data in collaboration with a university-based team
- √ Provide information and coordinate project data with external program evaluation team
- √ Attend project meetings at the local and national level (travel support provided when not virtual)
- √ Work with PIs on budget, recruitment, implementation, and annual reporting requirements
- √ Coordinate data collection of STEM resources for special education to ensure content is aligned with DS and placed on open educational resource website
- √ Ensure training of site-based coaches
- √ Develop with the university team IRB protocols and monitor data for reporting to university, schools, and districts
- √ Ensure all recruitment and consent procedures are followed according to IRB protocol
- √ Collect and analyze data with research team and PIs for publication
- √ Review relevant literature on a continuous basis
- √ Produce written reports on the results of the analyses
- √ Report, present, and publish results

Requirements:

- Ph.D. in special education, computer science, or closely related fields
- Experience in working with science or mathematics and special education
- Experience and expertise in teacher preparation
- Experience and expertise in coaching preferred
- Experience in teaching in K-8 educational setting with preference given to those with experience in urban and rural settings
- Evidence of scholarly activity with experience publishing in reputable scientific journals and proceedings
- Experience using cloud-based applications and web services
- Established evidence of experience with multi-modal data collection and analysis
- Experience with grant reporting and research design
- Advanced computational skills with ability to quickly manipulate large datasets and perform exploratory analytics in collaboration with the project team

For further information please send your current CV and cover letter outlining your expertise aligned with the position to lisa.dieker@ucf.edu