

POSTDOCTORAL RESEARCH FELLOW — SPORT/DATA ANALYTICS

At the University of Michigan (UM), the Exercise and Sport Science Initiative (ESSI: www.essi.umich.edu) in partnership with UM Athletics seeks a highly motivated postdoctoral research fellow to focus on sport and performance data analytics development and integration.

Responsibilities will include but are not limited to:

- Design, develop, test, implement, and maintain predictive models and metrics using appropriate tools and techniques
- Work with ESSI and Athletics to integrate new statistical analyses, models, and data visualizations into existing and new applications
- Keep up-to-date on new predictive modeling techniques and evaluate their potential for application to Athletics' data sets for multiple sports, teams, and student-athletes
- Collaborate with UM/ESSI researchers and UM Athletics personnel (e.g., Senior Associate Athletic Director & Student Athlete Health & Wellness Officer, coaches, athletic trainers, and data analysts) to design and implement statistical analyses
- Collaboratively implement new methods and technology into the student-athlete and team development processes to optimize player and team performances and reduce injury
- Work with data analytics experts at the UM and with Athletics to research, develop, and test predictive models as well as bring objective measures to assess student-athlete performance and reduce injuries
- This position will not entail developing a formal curriculum and teaching regularly scheduled classes, but the candidate may be asked to occasionally present at selected events

Where:

Ann Arbor, University of Michigan

Support:

The Postdoctoral Research Fellow will be appointed in 1 year increments. Funding for a 1-year postdoctoral fellow position is immediately available, with the potential to extend the appointment for a second year, depending on availability of funds and performance in the first year. The decision to extend for a second year will be made six months into the first year of funding.

General Eligibility Requirements:

- A PhD or similar degree (ScD) in a computational field such as: data science, mathematics, engineering, quantitative social sciences, quantitative sport science, or analytics
- Strong knowledge of statistical analysis, machine learning, and predictive modeling
- Demonstrated experience with statistical software (e.g., R and Python) and database querying (SQL)
- Ability to communicate effectively with UM Athletics staff
- Experience with spatiotemporal analysis or Bayesian statistics—preferable, but not required
- Experience with wearable sensor data (e.g., Catapult)—preferable, but not required
- Understanding of typical athletic and performance data structures, plus knowledge of current sports performance research, statistics, and strategy
- Experience or strong interest in formulating, writing, and managing research grants/contracts
- Ability to communicate complex ideas to non-technical audiences using data visualization
- Strong interpersonal and written/verbal communication skills and experience—the candidate will play an integral role in and serve as a leading member of a collaborative team, including individuals from ESSI, UM Office of Research, Athletics, and various schools and colleges on campus

Please apply via the University of Michigan applicant management system by attaching one PDF file. The applicant management system website is <http://careers.umich.edu/>. Use keyword search to find job number 156576. Applications should include a CV, cover letter of intent, and complete contact information for at least three references. Applications will be reviewed as received, and it is anticipated that the short-listed finalists for the position will be interviewed around June 1, 2018.

Background Screening:

The University of Michigan conducts background checks on all job candidates upon acceptance of a contingent offer and may use a third-party administrator to conduct background checks. Background checks will be performed in compliance with the Fair Credit Reporting Act.

Questions about the position can be directed to:

Lisa Rabaut, Managing Director, ESSI, University of Michigan

Email: lisaraba@umich.edu

ESSI website: <http://www.essi.umich.edu>

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