# POSTDOCTORAL RESEARCH SCHOLAR - IIHR
## University of Iowa

| | |
|---|---|
| **Job Title** | POSTDOCTORAL RESEARCH SCHOLAR - IIHR |
| **Department** | IIHR - Hydroscience & Engineering |
| **Institution** | University of Iowa |
| | Iowa City, Iowa |
| **Date Posted** | Feb. 16, 2024 |
| **Application Deadline** | Open until filled |
| **Position Start Date** | Available Immediately |
| **Job Categories** | Post-Doc |
| **Academic Field(s)** | Geography |
| **Job Website** | https://jobs.uiowa.edu/postdoc/view/4143 |
| **Apply Online Here** | https://jobs.uiowa.edu/postdoc/view/4143 |
| **Apply By Email** | |
| **Job Description** | |

**IIHR–Hydroscience & Engineering** (https://www.iihr.uiowa.edu/), the College of Engineering, and the department of Geographical and Sustainability Sciences at the University of Iowa seeks a highly motivated postdoctoral research scholar to work on the Diverse Corn Belt project (https://diversecornbelt.org/) under the supervision of Dr. Silvia Secchi. Pay is commensurate with experience. The appointment is full-time for 1 year, with the option for renewal depending on performance, work needs, and funding. This is an immediate opening and applications will be considered until a successful candidate is identified.

Research will focus on modeling alternative landscapes in the Corn Belt region on the basis of existing production patterns, land characteristics and infrastructure and building on the response to surveys

# POSTDOCTORAL RESEARCH SCHOLAR - IIHR
## University of Iowa

and focus groups conducted by the project. The landscape scenarios will be connected to water and air quality models and will be used to help identify potential policies alternatives to the current setup.

**Key areas of responsibility include:**

Gathering and processing of existing datasets on land use, soil and environmental characteristics, and location of critical infrastructure such as elevators, ethanol and other agricultural products processing plants.

Development of space-based algorithms on possible location of diversification of agricultural production in the region on the basis of the survey and markets components of the project.

Estimation of environmental and agricultural production indicators for baseline and scenario landscapes.

Preparation of datasets on the landscape scenarios in formats compatible with the needs of the other components of the project.

Development of online scientific decision-support resources, informational maps, and GIS-related tools for the extension and policy components of the project.

Document and report research results to the research team, project sponsor, stakeholders and in peer-reviewed literature.

The successful candidate will have the opportunity to work closely with faculty, staff, and students of the department of Geographical and Sustainability Sciences (https://clas.uiowa.edu/geography/) and with the interdisciplinary team of the Diverse Corn Belt project. The University of Iowa is one of the nation's top public research universities and is known around the world for its balanced commitment to the arts, sciences, and humanities. The University of Iowa is located in Iowa City, a community built around higher education, with vibrant cultural opportunities and a long history of international connections, leadership, and accomplishment. Iowa City offers the safe, friendly quality of life for which the Midwest is known. Information regarding some of the resources that the University of Iowa and the local area provide can be found at (https://worklife.uiowa.edu).

**Education Requirement:**

# POSTDOCTORAL RESEARCH SCHOLAR - IIHR
## University of Iowa

Ph.D. in a relevant field (e.g., Geography, GIScience, Geosciences) prior to starting this position is required.

**Required Qualifications:**

Research experience in the broad area of GIS and in spatial data analysis is required.

**Desirable Qualifications:**

Experience in landscape analysis and integrated modeling is highly desirable.

A record of interdisciplinary collaboration is desirable.

### EEO/AA Policy

*The University of Iowa is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination on the basis of race, creed, color, religion, national origin, age, sex, pregnancy, disability, genetic information, status as a U.S. veteran, service in the U.S. military, sexual orientation, gender identity, associational preferences, or any other classification that deprives the person of consideration as an individual.*

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

| **Contact** | Paul Oh |
| --- | --- |
| | HR |
| | University of Iowa |
| | Iowa City, IA |

# POSTDOCTORAL RESEARCH SCHOLAR - IIHR
## University of Iowa

| | |
|---|---|
| **Phone Number** | 319-335-5078 |
| **Contact E-mail** | paul-oh@uiowa.edu |