Department of Civil and Environmental Engineering
Colorado State University

Research Associate I – GIS Analyst

The Department of Civil and Environmental Engineering is hiring a full-time annual-contract Research Associate specializing in GIS mapping and analysis to work on a series of projects with the National Park Service (NPS). The position is based in an office setting in the National Park Service's Water Resources Division (WRD) in Fort Collins, CO.

Responsibilities: The primary purpose of this Instructor position is to support the CEE Department's teaching of courses in mechanics of solids, concrete design, and steel design. This Instructor position also will be required to teach/co-teach other courses, including but not limited to the freshman introductory courses in CEE, civil engineering materials, structural analysis, and/or senior design. The Instructor will join a collegial group of committed faculty, will teach/co-teach a maximum of three academic courses per semester, and is expected to provide guidance and leadership for undergraduate education within these areas.

Qualifications: Candidates must have (1) Master's degree in Natural Resources, Engineering, or closely related field; (2) Proficiency with ESRI ArcGIS 10.x, including ModelBuilder and Python scripts to perform geoprocessing tasks; (3) Ability to write thorough metadata and instructions; (4) Proficiency with Microsoft Office products like Access, Excel, PowerPoint, and Word; (5) Experience in scientific report writing; (6) Strong presentation skills; and (7) High level of organization.

Preferred Qualifications: (1) Experience creating graphics using Adobe Photoshop; (2) Some knowledge of JavaScript; (3) Web design skills using HTML and CSS; (4) Experience using GitHub to maintain data hosted on the web; (5) Experience in object-based image analysis using Trimble eCognition or other remote sensing; (6) Experience using software such as ERDAS or ENVI; and (7) Experience working with and pre-processing of aerial imagery and LiDAR data.

Salary and Benefits: Colorado State University provides full academic year salary and excellent benefits. Salaries are competitive and commensurate with qualifications and experience. A benefits package is included (http://www.hrs.colostate.edu/benefits/index.html).

Proposed Start Date: November 1, 2016, or as negotiated. Please apply here: http://jobs.colostate.edu/postings/35664

Deadline: For full consideration, please submit an application by 11:59 pm MDT September 20, 2016. Applications will be accepted until the position is filled.

To Apply: A complete application must include all the following

- A cover letter;
- A detailed curriculum vitae;
- A list of references with a minimum of three references listed – references will not be contacted without prior approval of candidates. Application materials of semifinalist candidates, including letters of reference, will be made available for review by the entire CEE faculty

If you have questions about this search, please contact the search chair, Dr. Dan Baker, at Dan.Baker@colostate.edu.

Colorado State University, with an enrollment of approximately 32,000 students, is located in Fort Collins, Colorado, a community of approximately 156,000 people located at the foothills of the Rocky Mountains about 65 miles (105 km) north of Denver. Fort Collins is routinely recognized as
one of the most desirable places to live in the USA; residents enjoy an excellent school system, an expansive park and natural area program with extensive biking, hiking and walking trails, and over 300 sunny days a year. More information about Fort Collins and Colorado State University can be obtained at http://www.visitftcollins.com and http://www.colostate.edu/visiting-campus.aspx.

The CEE Department at CSU is recognized both nationally and internationally for its education, research, and service and outreach programs, and is ranked in the top 40 of such programs in the USA. The CEE Department consists of 33 tenured and tenure-track faculty, 15 research scientists/scholars, 25 research associates, and 12 administrative professionals. Additional information about the CEE Department can be found at http://www.engr.colostate.edu/ce/. Air quality research and teaching at CSU spans several departments, including Atmospheric Science, Mechanical Engineering, Chemistry, Environmental and Radiological Health Sciences, Soil and Crop Sciences, and the Cooperative Institute for Research in the Atmosphere. The CSU Partnership for Air Quality, Climate, and Health serves to build community across these units, in addition to engaging key stakeholders so that our work produces beneficial impacts in Colorado, the U.S., and abroad.

The Department of Civil and Environmental (CEE) Engineering at Colorado State University invites applications for the Water Resources Division (WRD) serves as the source for multidisciplinary expertise and Service-wide guidance to parks and the NPS Directorate for aquatic ecosystem stewardship. The National Park Service manages 88 ocean and Great Lakes parks across 22 states and four territories. The parks conserve over 11,000 miles of coastline and 2.5 million acres of ocean and Great Lakes waters, including coral reefs, kelp forests, tidewater glaciers, estuaries, beaches, wetlands, historic forts and shipwrecks. Ocean and coastal parks constitute a system of tremendous biological, cultural, historic and recreational value to the nation, attracting over 86 million recreation visits each year. Within WRD, the Ocean and Coastal Resources Branch works to advance ocean and Great Lakes stewardship in the National Park System through technical assistance to parks, scientific support focused on coastal issues, coordinating policy issues nationally, and leveraging support with partners.

**Condition for Employment:** Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history.

**Commitment to Diversity and Inclusion:** Reflecting departmental and institutional values, candidates are expected to have the ability to advance the Department's commitment to diversity and inclusion.

Colorado State University is committed to providing an environment that is free from discrimination and harassment based on race, age, creed, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, gender identity or expression, or pregnancy. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.