

Position filled

Associate Professor Position
at the Department of Civil and Earth Resources Engineering,
Graduate School of Engineering, Kyoto University

March 13th, 2020

Job title	Associate Professor
Number	One person
Location	Geophysics Laboratory in the Chair of Earth Resource Engineering (Department of Civil and Earth Resources Engineering), Graduate School of Engineering, Kyoto University, Kyotodaigaku-Katsura, Nishikyo-ku, Kyoto
Job description	<p>The mission of Geophysics Laboratory is to deepen the geoscientific understanding of phenomena related to the generation and the development of earth resources, in addition to the technical development for high-resolution imaging of the subsurface structure of the Earth. Therefore, various numerical simulation methods are applied to simulate seismic and electromagnetic wave propagation to the subsurface structure for the development of exploration methods for material, energy and water resources inside the crust, to understand the behavior of interstitial fluids in the crust, physical properties of subsurface materials, the behavior of hydraulically created fractures, and time-variant physical state parameters such as temperature and pressure, etc. in the subsurface environment. The major of successful candidate includes fundamental theories of earth sciences, geophysics (especially seismology, electromagnetics, and geodesy), rock mechanics, etc. dealing with the above research areas. Wave theories for both seismic and electromagnetic wave propagation and petrophysics, various numerical simulation methods such as solid-liquid coupled analysis dealing with complex fluid behavior inside hydrocarbon reservoir, and the experience in field survey using both seismic and electromagnetic exploration are strongly required.</p> <p>The activity mission of the Laboratory is closely related to those of the other Earth resources engineering laboratories: “Earth Crust Engineering Laboratory”, and “Measurement and Evaluation Technology” in the Department of Civil and Earth Resources Engineering; "Earth and Resource System Laboratory" and</p>

	“Environmental Geosphere Engineering Laboratory” in the Department of Urban Management. The “Geophysics Laboratory” is, therefore, expected to collaborate with these laboratories.
Requirements	A successful candidate has (i) a degree of either PhD or Doctor of Engineering or Science in Earth resources or related academic fields, (ii) distinguished research record in the areas of the mission of the division, (iii) excellent educational experience in universities or research institutions, (iv) ability and enthusiasm in the management of the division and the department, (v) ability of verbal and literal conversations in Japanese, and (vi) ability to give classes in Japanese and English.
Contract Start Date	Anticipated on August 1st, 2020 or later at the earliest possible date.
Probation period	Six months in accordance with the regulations of Kyoto University
Business hours	Full-time employment in a discretionary work system, based on 7 hours, 45 minutes (8:30-17:15 work schedule with a one-hour break) per day, 38 hours 45 minutes per week. Days off: Saturday, Sunday, National holidays, Year-end and New Year holidays, Foundation Day, and Summer vacation.
Salary and benefits	To be determined in accordance with Kyoto University regulations
Social insurance	Eligible for MEXT* mutual aid association membership, employment insurance, and workers’ compensation insurance *Japan’s Ministry of Education, Culture, Sports, Science and Technology
Referral Instructions	Please submit the following documents and an electronic device such as CD/DVD or USB including all the document files in the Portable Document Format (PDF) by means of trackable delivery services. 1) A curriculum vitae including sectioned descriptions of (a) educational histories, and (b) experience as councilor or commissioner of national and local governments and academic societies, 2) A publication list sectioned for (a) peer-reviewed or refereed journal papers with the latest impact factors, (b) peer-reviewed or

	<p>refereed proceedings papers, (c) non-reviewed papers, (d) published or edited books or book chapters, (e) patents, and (f) competitive research funds with descriptions of “Principal Investigator,” “Co-Investigator” or “Research Collaborator” (Grants-in-Aid for Scientific Research etc.),</p> <p>3) Reprints or copies of five papers representing the candidates’ researches,</p> <p>4) A concise personal statement in about 2,000 Japanese letters describing the candidate’s research achievements,</p> <p>5) A concise personal statement in Japanese describing the candidate’s education experiences and academic society activities,</p> <p>6) A concise personal statement in about 2,000 Japanese letters describing the candidate’s future vision for research and education after the assignment in the Department, and</p> <p>7) A list of two references with contact information to whom the University can ask for opinions on the research and education experiences of the candidate.</p> <p>Addressee: Professor Kazuhiko TSUKADA Kyoto University Department of Civil and Earth Resources Engineering C1-1-352, Kyoto Univ. Katsura Campus, Nishikyo-ku, Kyoto 615-8540, JAPAN</p>
Application Deadline	Due May 1st, 2020 (Friday)
Screening	<p>The Selection Committee qualifies all candidates, based on the documents submitted. An interview may be scheduled, if necessary, and will be informed of to selected interviewees. Unfortunately, no traveling allowance will be provided to any of the interviewees. The final decision will be made by all professoriate members in the Departments of Civil and Earth Resources Engineering and of Urban Management. Each candidate will be informed of the final decision pertaining to him/herself only.</p>
Notes	<ul style="list-style-type: none"> The university will not return your application documents. Personal information contained in the application documents will

	<p>be used solely for the purpose of screening applicants, and never for any other purposes.</p> <ul style="list-style-type: none"> • Kyoto University is creating a culturally diverse environment. An equal opportunity is offered to this open position regardless of disability. A female person, however, will be selected when she remains in the shortlist of the final two candidates. We give priority to women if they have equal competence based on fair examination. • The faculty organization the selected belongs to is the Faculty Consort of Global Engineering in the Natural Sciences Platform, while he/she is involved in the education and research in the Department of Civil and Earth Resources Engineering, the Graduate School of Engineering. • The information about the departments may be found at the following URLs: Civil and Earth Resources Engineering: http://www.ce.t.kyoto-u.ac.jp/en/index.html?set_language=en Urban Management: http://www.um.t.kyoto-u.ac.jp/en/index.html?set_language=en
Contact	<p>Professor Kazuhiko TSUKADA</p> <p>Email: tsukada.kazuhiko.3v@ (Please append “kyoto-u.ac.jp” at the end)</p> <p>fax: +81-75-383-3216</p>