

Call for application: Professor at Institute of Materials and Systems for Sustainability, Nagoya University,
Japan

1	Title	Call for Professor
2	Affiliation	Advanced Measurement Technology Center, Institute of Materials and Systems for Sustainability
3	Recruitment details	<p>The Institute of Materials and Systems for Sustainability, Nagoya University invites applications for Professor in order to develop the research activities at the Advanced Measurement Technology Center. The institute has been certified as a "Joint Usage/Research Center of energy-friendly and sustainable energy-saving and energy-creating materials and systems research" by the Ministry of Education, Culture, Sports, Science and Technology, and it is aimed at realizing the development of environment-friendly and sustainable energy-saving and energy-creating technologies. To promote the research activities,</p> <p>The Elementary Particle Measurements Section of the Advanced Measurement Technology Center currently being recruited is dedicated to advancing the development of unique radiation measurement technologies centered around the nuclear emulsion technique.</p> <p>In particular, this section focuses on the development and operation of advanced measurement technologies, including systems (equipment) capable of automatically reading particle tracks recorded on nuclear emulsion plates and manufacturing equipment for nuclear emulsions. Nuclear emulsions are renowned for their extremely high resolution in measuring particle track position and angle. Furthermore, they are energy-efficient and compact, capable of recording and accumulating particle tracks without external power, simply by being placed.</p> <p>So far, nuclear emulsions have been used in various applications, including radiographic inspection of large structures like ruins, γ-ray astronomy, and elementary particle physics experiments and research.</p> <p>As a global hub for nuclear emulsion research and development, the Elementary Particle Measurement Section will be committed to meeting the increasing demand for capabilities and applications. Additionally, it will promote a wide range of research from fundamental to applied by enhancing crucial measurement technologies.</p> <p>Research field and the professor to be considered</p> <p>We are seeking particularly talented researchers who can promote the research and development of nuclear emulsion-related technologies by developing and constructing systems for the automatic track reading and analysis on nuclear emulsion, enhancing the performance of nuclear emulsions, and conducting experimental research using nuclear emulsions. Additionally, we hope to find researchers who can collaborate with domestic and international research institutions to advance this research and promote the growth of nuclear emulsion technologies as well as proactively lead the development of human resources in this field.</p> <p>Nagoya University proactively recruits women if they are recognized as equal in the evaluation of performance (including research performance, educational performance, social contributions, and character).</p> <p>Tasks in charge (Beginning)</p>

		<ul style="list-style-type: none"> • Promotion of advanced research and collaborative research projects between academia and industry at the Advanced Measurement Technology Center, The Elementary Particle Measurement Section, educations of undergraduate and graduate students, and world leading research achievements. • The management and administration of the Advanced Measurement Technology Center and the Elementary Particle Measurements Section. Collaboration with the Advanced Measurement Technology Center, the Department of Science, and the Graduate School of Science. Acquisition of competitive funding, building partnerships to ensure diversity both domestically and internationally, and management of the University. (Range of change) Tasks designated by Tokai National Higher Education and Research System	
		[Work location] (Beginning) Chikusa-ku, Nagoya, Aichi (Range of change) Location designated by Tokai National Higher Education and Research System	
		[Number of positions] One professor	
		[Expected starting date] Earliest possible date from April 1, 2025	
4	Research field	Category	Mathematical and physical sciences
		Sub category	Experiments to make subatomic particles, nuclei, cosmic rays and astrophysics
5	Employment type	Full-time Tenured (project period is within 10 years)	
6	Eligibility for application	(1) Ph.D. or equivalent degree (2) Sufficient track record and strong enthusiasm and motivation for the above-mentioned research field (3) Keeping the own specialized research field as core, able to carry out collaborative research projects within the institute and with other researchers (4) Able to proactively commit the administration of the Advanced Measurement Technology Center and the Elementary Particle Measurements Section (5) Able to teach lectures, exercises and experiments related to physics and other subjects, cooperating with management of the Department of Physics in the School of Science. (6) Able to supervise graduation thesis research (master's thesis research, and doctoral thesis research) in the Graduate School of Science.	
7	Compensation	[Salary, working hours, holidays, length of employment, insurance, etc.] Working hours and other benefits are determined in accordance with the provisions of the Tokai National Higher Education and Research System Employee Work Rules. https://education.joureikun.jp/thers_ac/act/frame/frame110010928.htm Salary is determined based on the annual salary system at Tokai National Higher Education and Research System	
8	Application period	Received before 17:00 on August 31 st , 2024	
9	Application, selection, result notification, and contact	[How to apply (address for application documents)] Send the documents below by e-mail within the application period (1) Curriculum vitae (in any form) with the applicant's photo attached and applicant's e-mail address provided (2) Publication list categorized by peer-reviewed journal papers with the number of citations based on Scopus (put the number of citations based on Scopus), international conference proceedings, books, reviews, intellectual property, awards, keynote and invited speech, research funds, social activities including academic society such as the Physics Society of Japan Japan [all co-authors are listed in the order of publication and the applicant's name is underlined] (3) Reprints of no more than 5 major papers (mark these papers with * in the publication list) (4) Summary of previous research and education (in any form within three pages of A4 sheet)	

		<p>(5) Title and summary of the proposed research (in any form within three pages. project period will be five to ten years)</p> <p>(6) Aspiration regarding education and research (in any form within three pages of A4 sheet)</p> <p>(7) Names, affiliations and contact information of two persons from whom references can be obtained</p> <p>Address for application documents: Prof. Tomomi Uchiyama, Director Institute of Materials and Systems for Sustainability, Nagoya University uchiyama*@*is.nagoya-u.ac.jp director*@*imass.nagoya-u.ac.jp (Please drop * before/after @ in sending e-mail)</p> <p>Send the e-mail to both addresses with a PDF file combining all the application documents as attachment. Use file transfer services when the size of the file is large.</p> <p>Inquiry: Prof. Shunsuke Muto, Director of the Center Advanced Measurement Technology Center, Institute of Materials and Systems for Sustainability, Nagoya University smuto*@*imass.nagoya-u.ac.jp (Please drop * before/after @ in sending e-mail) Phone +81-52-789-5200 Website https://www.imass.nagoya-u.ac.jp</p>
		<p>[Selection process and decision of acceptance/rejection]</p> <ul style="list-style-type: none"> • After a screening of documents, an interview may be conducted • An interview will be scheduled through communication by e-mail
10	"Deemed exports" in security export control	<p>In November 2021, with the clarification of the scope of control for "deemed exports" under the Foreign Exchange and Foreign Trade Act ("FEFTA"), some provision of sensitive technology to faculty members and students by universities and research institutions has become subject to control under the FEFTA. Consistent with this change, when applying for faculty positions or studying at the University, faculty, staff, and students will be required to submit a "Declaration of applicable specific categories" based on the "Flowchart for determining applicable specific categories."</p> <p>Please download the form below and submit it. https://nuss.nagoya-u.ac.jp/s/bLFocRofmoj83zp</p> <p>Faculty, staff, and some students will also be required to submit a "Confirmation Form" at the time of their recruitment or admission. The "foreign organization" mentioned in the Declaration of applicable specific categories is a "Non-Japanese organization."</p>
11	Others	<p>The submitted information will be strictly managed under the privacy policy of Nagoya University and will be used only for this selection. The Selection Committee will be responsible for disposing of all application documents and will not return them.</p> <p>The institute will not bear your travel expense for the interview.</p>