

**Specially Appointed Assistant Professor or Researcher
in Institutes of Innovation for Future Society, Nagoya University**

1	Positions	Specially Appointed Assistant Professor or Postdoctoral Researcher (1 to 2 persons)	
2	Affiliation	Institute for Materials Innovation, Institutes of Innovation for Future Society, Nagoya University	
3	Contents	<p>[Job Description]</p> <p>This position is supported by a NEDO's project "Green Innovation Fund Project / Fuel Ammonia Supply Chain Construction Project 1-(1) Development and Demonstration of New Catalysts for Ammonia Manufacturing." As a member of Prof. Ryoji Asahi's research group, you will be mainly engaged in research activities using first-principles calculation and machine learning. This is a challenging study to develop high-efficiency ammonia synthesis. We are looking forward to applications from those who can actively engage in research with the aim of developing novel catalysts. This study is collaborated with Prof. K. Nagaoka in Nagoya University (development of novel catalysts), Prof. Y. Kawajiri in Nagoya University (reactor and process design), Prof. K. Murakami in Kyushu University (electron microscope), and Prof. K. Inazu in NIT (reaction analysis), and Chiyoda Corporation (catalyst development).</p> <p>[Project sites]</p> <p>https://www.nedo.go.jp/news/press/AA5_101502.html https://www.nedo.go.jp/content/100940968.pdf</p> <p>[Work Description]</p> <p>Research and development of ammonia synthesis catalyst using first-principles calculation and machine learning</p> <p>[location]</p> <p>Furo-cho, Chikusa-ku, Nagoya 464-8603 Asahi Laboratory, Nagoya University (Higashiyama Campus)</p> <p>[When to start]</p> <p>As early as possible after May, 2022</p>	
4	Research Field	Interdisciplinary science and engineering	Computational Science
		Informatics	Computing Technologies, Materials Informatics
		Engineering	Materials Engineering
5	Work conditions	full-time Single-year contract (with possible renewal based on annual review up to the project period 2027)	
6	Qualifications	<ul style="list-style-type: none"> • Doctoral degree or expected to be obtained by the time of appointment • Expertise in first-principles calculation, machine learning, materials informatics, or 	

		data science, having enthusiasm about developing solid catalysts based on computational data.
7	Treatment	<ul style="list-style-type: none"> • Based on the rules of employment of Tokai National Higher Education and Research System: https://education.joureikun.jp/thers_ac/act/frame/frame110010928.htm • Salaries shall be based on the annual salary system specified by the University. • Holidays and year-end New Year holidays, paid holidays are available.
8	Application period	From January 11, 2022 to March 31, 2022 (However, recruitment will be closed as soon as the recruitment of the right person is decided.)
9	Applications	<p>[Application documents]</p> <p>(1) Curriculum vitae (any format: photo attachment, contact information including e-mail address, educational background, profession experience, academic associations, degrees, thesis title)</p> <p>(2) List of research achievements (free form)</p> <p>(3) Past achievements and perspectives on your research</p> <p>(4) Two persons who can be asked for their opinions: name, affiliation, relationship with the applicant</p> <p>Submit the documents to the contact address below by email (preferred) or mail. Please note that the documents you send us will be used only for selection, but will not be returned.</p> <p>[Selection Details]</p> <p>Selection will be based on the submitted documents, and online interviews will be conducted as necessary.</p> <p>[How to notify results]</p> <p>The selection results will be notified by e-mail.</p> <p>[Contact address]</p> <p>Prof. Ryoji Asahi, Institute for Materials Innovation, Institutes of Innovation for Future Society, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464-8601, Japan E-mail: ryoji.asahi@chem.material.nagoya-u.ac.jp</p>
10	other	<p>The university is actively promoting gender equality.</p> <p>For more information, please visit the following URL: http://www.mirai.nagoya-u.ac.jp/</p>