

国立大学法人北海道大学電子科学研究所助教ないし准教授の公募に

ついて

北海道大学電子科学研究所附属社会創造数学研究センターでは、今回、下記のように助教ないし准教授 1 名を募集することになりました。適任者にお心当たりの方は情報をフォワードしていただければ幸いです。

記

(1) 募集者の名称

国立大学法人北海道大学

(2) 公募職種および募集人数

助教ないし准教授 1名

(3) 応募資格

博士の学位を有すること。機械学習(おもに強化学習)、化学物理(主に化学反応、第一原理 MD シミュレーション、量子化学計算)のいずれかの方法論・概念に精通し、一緒にこれらの融合研究を展開していただける方。理論開発、プログラミングに精通し、学際的視点に立って、数理的な構造だけでなく、実在する現象や実験結果との対応・接続を真剣に追求できる柔軟な方。強化学習を用いた化学反応設計、計測迅速化、日立北大ラボと展開している自律分散型ナノグリッドの多目的最適化問題など、当該研究室で進行中のプロジェクトにもご協力いただける方。また、大学院生の研究指導を一緒に行っていただける方。

(4) 着任時期

2021 年 10 月 1 日以降できるだけ早い時期。

助教:任期 5 年(審査のうえで最長 3 年再任可)。

准教授:原則任期の定めなし

(5) 試用期間

あり(3 ヶ月)

(6) 給与

本学の規程による

(7) 勤務形態

専門業務型裁量労働制を適用

※1日に7時間45分労働したものとみなす

(8) 健康保険等

文部科学省共済組合、厚生年金、労災保険、雇用保険加入

(9) 提出書類

1. 履歴書(押印、写真添付、電子メールアドレス、所属学会を必ず記入)

2. 研究業績目録

原著論文、総説および解説論文、著書、その他に分類して作成すること。査読の有無を明記し、査読のない学術誌の場合にはその他に入れること。共著者名を記すこと。論文の最初と最後のページを明記すること。

国際および国内学会における講演(招待講演、口頭、ポスターに種別すること)。

3. 主要論文の別刷り5編(各1部)

4. これまでの研究の概要(A4、2-3枚 冒頭に概略を簡条書きにすること)

5. 研究計画書(A4、2-3枚)。どのような共同研究が遂行できるかを具体的に記述すること。

6. 参考意見を聞くことのできる方(2名。准教授応募の場合、うち1名は海外の研究者が望ましい)

7. その他参考になる事柄(受賞の有無、学会活動歴、研究代表者として研究助成を受けたことがあるときはその情報など)

締切 7月31日(必着)

★応募される方は、以上の書類を添えて、封筒に「人事応募」と朱書きし、書留で下記小松崎宛にお送りください。選考の段階で応募者の方にセミナーを行っていただく場合があります。応募書類は原則として返却しません。応募書類は人事選考の目的以外には使用しません。国内からは電子メールでの応募は受け付けていませんので、ご注意ください。

問い合わせ、応募先は、以下までお願いします。

小松崎 民樹

北海道大学電子科学研究所附属社会創造数学研究センター(データ数理研究分野)

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Faculty position, Assistant or Associate Professor, The Research Center of Mathematics for Social Creativity (MSC), the Research Institute for Electronic Science (RIES), Hokkaido University

- (1) **Name of Recruiting Institution:** National University Corporation Hokkaido University
- (2) **Position Title:** Assistant or Associate Professor at The Research Center of Mathematics for Social Creativity (MSC), the Research Institute for Electronic Science (RIES), Hokkaido University
- (3) **Area of Specialization:** Interdisciplinary Science to Bridge Theory and Experiments in Chemical Physics. Candidates should have either knowledge of machine learning (reinforcement learning) and chemical physics (chemical reaction, first-principles MD, electronic structure theories)
- (4) **Qualification:** Applicants are required to have a Ph.D. or doctoral degree.
- (5) **Employment Status:**
Assistant professor: The employment period cannot exceed 5 years from the initial date of hire (Reappointment for 3 years is possible depending on the results of an interim evaluation).
Associate professor: Tenured.
- (6) **Expected Start Date:** October 1, 2021 or the earliest date thereafter.
- (7) **Probation Period:** The probation period is three months.
- (8) **Salary:** The salary will be determined in accordance with the regulations of Hokkaido University.
- (9) **Working Form:**
Discretionary labor system for professional work
*The standard working hours for a day is deemed as 7 hours and 45 minutes.
- (10) **Health Insurance and Pension:** The Ministry of Education, Culture, Sports, Science and Technology Mutual Aid Association Services including Health Insurance and

Employee Pension, Workers' Accident Compensation Insurance and Employment Insurance

(11) Documents to Be Submitted:

1. Curriculum vitae (with photograph, telephone number, and e-mail and mailing address) including educational records, professional career records, activity records in academic society and awards.
2. Achievements List: journal papers, review papers, books, and others should be listed respectively. All authors, the first and the last pages, with or without peer review should be shown for each publication. Journal papers without peer review should be listed as others. Domestic and international presentations (divided into categories: invited, oral, poster) should be listed respectively.
3. Reprints or copies of five significant articles (original papers and/or review articles).
4. Brief statement of applicant's research interests and appealing points, including the summary of applicant's past and present research (~2 pages in A4-size sheet).
5. Perspectives for future research along research interests in the host laboratory of molecule & Life Nonlinear Sciences (~2 pages in A4-size sheet).
6. Educational experiences and policy (1 page in A4-size sheet).
7. List of research funds the applicant acquired in the past, including the names of the funds, project titles, amounts, periods of research, and allotted amounts (if not the principal researcher).
8. Contact information of at least two reference persons (affiliation, telephone number and e-mail address).

(12) Deadline:

July 31, 2021 (Applications must arrive no later than July 31, 2021 from domestic).

(13) Mailing Address and Notice:

We will accept the application by e-mail or internet file attachment from foreign countries (Note that only the postal mail is accepted from Japan). The documents will not be returned. Submitted documents are strictly protected and we do not use the obtained personal information for any purpose other than the screening. Applicants must indicate "Application Documents for Assistant/Associate Professor of MSC, RIES, Hokkaido Univ." in the subject of e-mail (or on the envelop for postal mail from Japan to the postal mailing address below), and send both to Ms. Matsue Koida < msc_hitachi@es.hokudai.ac.jp> with carbon copy to Prof. Tamiki Komatsuzaki

tamiki@es.hokudai.ac.jp.

(14) **Postal Mailing Address:**

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(15) **Inquiries:**

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URL: <http://mlns.es.hokudai.ac.jp>

Others:

We recruit one assistant/associate professor, and would like to seek candidates from a variety of fields. We would appreciate it if you could forward this job-opening information to well-qualified person. Interview may be carried out in the process of selection. We are seeking for a candidate who will be working together on the ongoing research projects of our laboratory: Acceleration of design of chemical reaction synthesis and Raman imaging by reinforcement machine learning, multi-objective spatiotemporal optimization of transportation and power-management by multiple EVs in nanogrids' networks with Hitachi-Hokudai Lab.