

The Hakubi Project [Tenure-track Type]

Detailed conditions of available posts publicized in LEADER

Post No.	A5202
Department	Institute for Integrated Radiation and Nuclear Science
URL	https://www.rii.kyoto-u.ac.jp/en/research_div/rls-2/rb
Number of positions	1
Starting date	October 1st, 2020
Type of researchers to seek	<p>The institute which our laboratory belongs to has a research reactor. With using neutron beams from the reactor, clinical and basic studies on boron neutron capture therapy (BNCT) have been carried out. We have investigated the basic studies on BNCT. BNCT is based on the following nuclear reaction. Nonradioactive isotope ^{10}B atoms that absorb lowenergy neutrons (thermal neutrons) disintegrate into an alpha (^4He) particle and a recoiled lithium nucleus (^7Li). These particles deposit high energy along their very short path ($<10 \text{ \AA}$). Thus, only cancer cells with ^{10}B are destroyed following thermal neutron irradiation. Theoretically, any normal cells abutting the cancer cells are spared from heavy particles irradiation by ^4He and ^7Li particles.</p> <p>Recently, immunotherapies using immune check point inhibitors have been reported to be effective in the treatment of many types of cancer. However, the response rates of these treatments are around only 30 %. To improve the response rates, many researches on the combined therapies with immunotherapy and other anti-cancer therapy have been carried out. In these researches, combination of immunotherapy with radiotherapy is expected to be an effective treatment. We have investigated the effect of BNCT for the tumors implanted in the hind leg of mice to the distant lung metastases. We would like to start a research project on BNCT studies with reference to cancer immunology which focus on the effect of cancer-cell specific killing by BNCT to cancer immune cycle.</p> <p>In Japan, only one institutes is available for neutron beams applicable for BNCT basic studies. We seek a young candidate who will enthusiastically engage in the unexplored BNCT studies on cancer immunology as a principal investigator.</p> <p>[Future career path]</p> <p>The tenure interim evaluation is conducted in the third year after hiring. The tenure review is conducted by the final year of the tenure track period to determine whether a tenure candidate should be granted the status of tenured associate professor.</p>
Research field	Medicine dentistry and pharmacy
Key words	radiation therapy, radiation oncology
Job type	Program -Specific Associate Professor
Employment Status	tenure-tracking employment
Work Location	2, Asashiro-Nishi, Kumatori-cho, Sennan-gun, Osaka 590-0494
Advance notice/entry	Necessary
Advance notice deadline	May 11, 2020

Method of advance notice	Please e-mail Administration office, Institute for Integrated Radiation and Nuclear Science that you want to apply for our post. The application forms are the forms (Form 1, Form 1 Attachment, Form2) for the Leading Initiative for Excellent Young Researchers (LEADER) in FY 2020. soumu2*rri.kyoto-u.ac.jp (Please change "*" to "@")
Compensation, Research environment	<p>【Salary】 In accordance with the salary regulation of the University</p> <p>【Employment Conditions】 Working hours are at the discretion of the worker with the standard working hours from 8:30 to 17:15. Holidays are Saturday, Sunday, National Holidays and any other days set by the University.</p> <p>【Term】 Five years in principle</p> <p>【Social Insurance】 Enrollment in the MEXT's mutual aid association, employees' pension, employment insurance, and employee compensation insurance</p> <p>【Interim Evaluation and Review】 The tenure interim evaluation is conducted in the third year after hiring. The tenure review is conducted by the final year of the tenure track period to determine whether a tenure candidate should be granted the status of tenured associate professor.</p> <p>【Others】 For the first 1-2 fiscal years after appointment, start-up research fund is provided to support research expenditures. Research facilities will be arranged by and in the Institute for Integrated Radiation and Nuclear Science.</p>
Process,schedule	<p>Late May 2020: Selection Based on Documents (Deadline for the application forms: May 19th, 2020)</p> <p>June 2020 : Selection Based on Interview (as necessary)</p> <p>July 2020 : Selection committee meeting</p> <p>August 2020 : Notification of the Selection Result</p>
Contact address	<p>Administration office, Institute for Integrated Radiation and Nuclear Science, Kyoto University 072-451-2310 soumu2*rri.kyoto-u.ac.jp(Please change "*" to "@")</p>
Additional Information	