

# Application Requirements for 2017B Research Proposals (Synchrotron Radiation Research Center)

National Institutes for Quantum and Radiological Science and Technology  
Quantum Beam Science Research Directorate

The facilities of the National Institutes for Quantum and Radiological Science and Technology (QST) are made available to researchers of other organizations as part of the Nanotechnology Platform Japan program, and also under the shared use of QST facilities program. The synchrotron radiation research center is accepting applications for 2017B proposals under these programs.

1. Usage period	October 1 <sup>st</sup> (Sun) , 2017 – February 17 <sup>th</sup> (Sat), 2018 (Plans)
2. Closing date for applications	May 31 <sup>st</sup> , 2017 Research Planning & Promotion Office (Harima site)
3. Synchrotron radiation apparatuses available	<p>QST Quantum Dynamics I Beamline</p> <p style="padding-left: 40px;">Synchrotron radiation Mössbauer spectroscopy station</p> <p style="padding-left: 40px;">Resonant inelastic X-ray scattering spectroscopy station</p> <p style="padding-left: 40px;">Surface X-ray diffractometer</p> <p>QST Quantum Dynamics II Beamline</p> <p style="padding-left: 40px;">High-pressure and high-temperature apparatus</p> <p>JAEA Actinide Science I Beamline</p> <p style="padding-left: 40px;">High-pressure and high-temperature apparatus for monochromatic X-ray experiments</p> <p style="padding-left: 40px;">Diamond anvil-cell diffractometer</p> <p style="padding-left: 40px;">Large X-ray diffractometer</p> <p>Please confer in advance on technical details with the person in charge of the relevant experimental apparatus before submitting application forms.</p>
4. Classification of application	<p>Both proprietary and non-proprietary R&amp;D proposals can be made in this regular call for proposals. Non-proprietary R&amp;D proposals include general proposals and proposals supported by competitively-awarded external funding sources. Non-proprietary R&amp;D proposals can be assisted as proposals of the Advanced Characterization Nanotechnology Platform. Proprietary proposals can be accepted as part of internal project of QST (shared use program).</p> <p>(1)Non-proprietary proposals</p> <p style="padding-left: 40px;">General non-proprietary proposals are reviewed by the JAEA/QST joint proposal review committee. A project report must be submitted following the experiment, and the research results must be published within a fixed period according to JASRI rules.</p> <p style="padding-left: 40px;">Projects supported by competitively-awarded external funding sources are given preferential use of apparatus. Please confer with the person in charge of each experimental apparatus before submitting proposals to external funding agencies. QST will request a copy of the proposal review results.</p>

	(2)Proprietary proposals Please contact us in advance for proprietary proposals with confidentiality requirements.				
5. Application qualification	Researchers other than students belonging to universities, companies, and public research organizations can apply as a project leader.				
6. Review of research proposals	(1)Non-proprietary proposals Non-proprietary proposals are reviewed comprehensively and professionally by the JAEA/QST joint proposal review committee in view of the necessity of QST apparatus, feasibility, safety, and previous research results performed in QST or JAEA beamlines. Adoption or rejection of projects supported by external funding may be determined without a review process by the JAEA/QST joint proposal review committee.				
	(2)Other proposals Adoption or rejection is determined by the facility management division of QST in view of feasibility and safety.				
7. Application method	Please fill out all requirements on the QST application forms, and submit them as e-mail attachments (see section 16). Application forms and instructions are available on the web site of the JAEA/QST Advanced Characterization Nanotechnology Platform. <a href="http://www.kansai.qst.go.jp/nano/">http://www.kansai.qst.go.jp/nano/</a>				
8. Notification of results	Applicants will be notified of the review results in August, 2017.				
9. Terms of shared-use program in QST facilities	The user's agreement for the Terms of Shared-Use Program in QST Facilities details the conditions of use for QST apparatus. Agreeing to these terms is necessary for submitting a proposal. The terms can be found on the following web site. <a href="http://www.kansai.qst.go.jp/nano/">http://www.kansai.qst.go.jp/nano/</a>				
10. Usage fees	Usage fees are as follows, depending on the classification of proposals in this regular application.				
	Classification of application		Usage fees (sum of three rows below)		
	Non-proprietary proposal (supported by Nanotechnology Platform Japan)	General proposal	Handling charge (10,700JPY) (fixed)	9,580JPY/8 hours (1 shift)(usage-based)	Additional expenses (usage-based)
		Proposal supported by competitively-awarded external funding sources		22,700JPY/8 hours (1 shift)(usage-based)	
Proprietary proposal	General proposal	68,110JPY/8 hours (1			

	(supported by QST Shared use program)			shift)(usage-based)(see note below)	
	<p>Usage fees may change without notification.</p> <p>(Note) Proposals under the proprietary use category also incur a JASRI beam time fee of 312,000JPY/shift in addition to the QST usage fees. If the JASRI beamline fee changes, the updated fee will be incurred.</p>				
11. User's report	<p>A user's report in QST format must be submitted for non-proprietary proposal (a general proposal or a proposal supported by competitively-awarded external funding sources). The submission deadline is March 31<sup>st</sup>, 2018.</p> <p>If the report is not submitted, usage fees for proprietary proposals will be applied. The difference between the non-proprietary fees and the proprietary fees may be requested.</p> <p>User's reports are made available to the public during the subsequent fiscal year.</p>				
12. Publication of research results	<p>SPring-8 users who have performed a non-proprietary experiment are required to publish their results in the form of a refereed journal article (including refereed proceedings, dissertations, a SPring-8/SACLA Research Report refereed by JASRI, or a technical journal article approved by JASRI. The usage of SPring-8 must be specified in the article. Publications must be registered in the SPring-8 Publications Database within three years from the end of the half-year research term during which the experiment was carried out (March 31<sup>st</sup>, 2021 for 2017B). The requirement of QST Synchrotron Radiation Research Center on publication is satisfied by the registration of articles in the SPring-8 Publications Database in accordance with JASRI rules. The details are described on the following web site.</p> <p><a href="https://user.spring8.or.jp/?p=748">https://user.spring8.or.jp/?p=748</a></p> <p>If a peer-reviewed article is not published within the stated period, usage fees of proprietary proposal are applied. The difference between the non-proprietary fees and the proprietary fees may be requested. Achievement of publication is an important evaluation criteria for determination of proposal adoption and user time.</p> <p>Support by the Nanotechnology Platform Japan, use of a QST experimental station at SPring-8, the beamline name used, and the project number must be described in the experimental part or acknowledgements of the article.</p> <p>The following activities are included as publications for the purpose of this requirement: original articles, reviews, proceedings, books, journals, industry magazines, domestic and international meetings, workshops, seminars, symposiums, lecture meetings, patents, debriefing sessions, press releases.</p>				
13. Handling of intellectual property	<p>Patents of intellectual properties based on the use of QST facilities are applied in accordance with the Terms of Shared-Use Program of QST Facilities. Please confer in advance with the person in charge of the relevant experimental apparatus.</p>				
14. Next call for proposals	<p>Application forms for research proposals of 2018A term will be called for in November, 2017.</p>				
15. Others	<p>After adoption of your proposal, QST will request the submission of further</p>				

	<p>documents.</p> <p>QST will not compensate for any reduction or change in user time due to unexpected problems of the synchrotron facilities or experimental apparatus.</p> <p>Transport and accommodation expenses are not supported by QST.</p> <p>Personal information provided in this application is used for the purposes of the Nanotechnology Platform Japan and the Shared-Use Program of QST Facilities. Please note that information on project leader's name, affiliation, and the research title may appear in web sites and publications of QST.</p> <p>For more detailed information of the Nanotechnology Platform Japan, please visit the following web site.  <a href="http://nanonet.mext.go.jp/">http://nanonet.mext.go.jp/</a></p> <p>Please refer to the following web site on the QST Advanced Characterization Nanotechnology Platform and the Shared-Use Program of QST Facilities.  <a href="http://www.kansai.qst.go.jp/nano/">http://www.kansai.qst.go.jp/nano/</a></p>
<p>16. Contact address for queries and applications</p>	<p>Ms. Eriko Miyamoto</p> <p>Research Planning and Promotion Office (Harima site)  Quantum Beam Science Research Directorate  National Institutes for Quantum and Radiological Science and Technology  1-1-1 Kouto, Sayo-cho, Sayo-gun, Hyogo 679-5148, Japan  Phone: +81-791-58-2640  Fax: +81-791-58-0311  e-mail : ml-qst-nanoinfo[at]qst.go.jp</p>