

Form No. BTR-1 for fresh proposals (For reference purpose only, not for submission)

**BEAM TIME REQUEST
FOR THE UTILISATION OF IUAC PELLETRON
INTER-UNIVERSITY ACCELERATOR CENTRE
Accelerator Based Research Centre of UGC**

INFORMATION ABOUT BTR - FORMS	
BTR-1	Beam Time Request for Fresh Proposals
BTR-2	Beam Time Account (BTA) for Thesis Proposals
BTR-3	Request of Funds (along with Beam Time) for Fresh Proposals from Universities
BTR-4	Beam Time Request for Ongoing Proposals

Proposal No. **A U C** (to be filled by IUAC)

Field (Please tick the relevant one)

Atomic Physics Materials Science Nuclear Physics Radiation Biology AMS
Others

1. TITLE OF THE EXPERIMENT: _____

2. PRINCIPAL INVESTIGATOR:

Name _____
Designation _____
Affiliation _____
(Institute/University)
Mailing Address _____

PIN Code _____

Telephone _____ (Office) _____ (Residence)

Mobile No. _____

E-Mail Address _____ Fax _____

3. COLLABORATORS (including IUAC personnel, Research Scholars) *

Sr.No	Name	Affiliation	Contact Phone No. & Fax No.	E-Mail Address

* Names to be included with consent.

4A. DETAILS OF TA/DA SUPPORT NEEDED (SPECIFY NUMBERS)

[For university / college personnel only, maximum number four; (travel support is as per entitlement, but limited to AC 2 tier fare)]

Faculty _____ Student _____ Others _____

4B. BRIEF BIO-DATA OF P.I. (Please attach as per the format given in the Annexure)

5. TOTAL NUMBER OF SHIFTS REQUIRED FOR COMPLETION OF THE EXPERIMENT (1 SHIFT = 8 HRS.): (Justify the requirement in the annexures)

Note: Shift allotment will be done only for the first run if the proposal is accepted. For sanctioning of subsequent runs, form **BTR-4** is to be submitted to AUC following the first run. Subsequent run sanction is subject to AUC review.

No. of runs proposed _____ No. of shifts proposed in each run _____
 (I Run) (II Run) (III Run)

6. BEAM REQUIREMENTS (Only for the first run : Normally one type of ion in one run, but for more than one ion species in one run, requirement is to be given in order, changes are not possible later)

Ion species (with Mass no.)	Energy (MeV)		Current (pnA)		DC/Pulsed	Charge state (if relevant)
	Min.	Max.	Min.	Max.		

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7. (A) BEAM LINE TO BE USED (please tick the appropriate one) :

BIO LIBR HIRA MAT.SC. GDA GPSC

7. (B) ACCESS-TIME NEEDED IN HOURS (with justification)

	Prior to run	After the run
For the Beam Line		
For the Data Acquisition System		

8. TARGET / SAMPLE DETAILS

Material	Thickness ($\mu\text{g}/\text{cm}^2$)	Backing (if any)		Any special property e.g. hygroscopic, toxic etc.
		Material	Thickness	

Note :

- Users are requested to bring their targets properly mounted on standard target frames or on standard strip to be fixed on the ladder. Please make sure that no material is to be used which can outgas. Any residual radio-activity associated with the targets after irradiation should be thoroughly checked in consultation with the health physics group at IUAC.
- If targets are to be prepared at IUAC, user must write to Convenor AUC well in advance, to book target laboratory time and prepare the targets himself/herself at IUAC. Consultation will be provided.

9. ONLINE/INSITU MEASUREMENTS PLANNED WITH JUSTIFICATION FOR THE BEAM SELECTION AND NO. OF SHIFTS ASKED (include also a brief description of any Offline studies planned and place of offline studies).

Limit your description to **maximum of 200 words** of text. (Annexure I)

10. SCIENTIFIC MOTIVATION:

Limit your description to **maximum of 200 words** of text only. (Annexure II)

11. IMPORTANCE OF THE PROPOSED EXPERIMENT IN THE CONTEXT OF THE INTERNATIONAL STATUS. Limit your description to maximum of 200 words only. A list of most recent publications in journal in the field relevant to the project must be submitted. (Annexure III)

Use annexure for figures/tables/references for items 9,10 & 11 above.

12A. Name and Affiliation of the theoretical physicist(s) associated with this proposal :

12B. Theoretical simulations / calculations in support of the experimental ideas :
(Limit to maximum of 100 words only)

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13. Have you used the IUAC Pelletron before?

If yes, when? _____ Which beam(s)? _____.

Publications, if any from the project :

**14. IF THERE IS A Ph.D STUDENT INVOLVED IN THE EXPERIMENT,
PROVIDE THE FOLLOWING INFORMATION:**

Note: Accelerator Users Committee (AUC) allocates highest priority to the Ph.D projects from universities and teaching institutions. Once a Ph.D. thesis proposal is accepted by AUC, a Beam Time Account (BTA) is opened for the project. The BTA takes care of the whole beam time requirement for the entire Ph.D work over a period of about 3 years. Use BTR-2 form for BTA. The actual scheduling of the beam time from the BTA can be made on a rapid scale through a simple process which just requires submission of duly completed form BTR-4 to the Convenor, AUC (at least six weeks in advance of the proposed run). There is no need to wait for an AUC meeting to get the request for a subsequent run sanctioned.

A) Name of the Student _____

Research Field _____

Has he/she cleared
NET/GATE

Yes /
No

Year of clearing NET/Gate
Score:

Fellowship details

Yes /
No

Project & Amount

B) Mailing Address _____

Fax: _____

Phone: _____

e-mail: _____

C) Ph.D. Registration Details

Date of

Registration _____

Department _____

University _____

D) Ph.D. Supervisor(s)

Name /

Designation _____

Department _____

University /

Institution _____

Name /

Designation _____

Department _____

University /

Institution _____

Date:

Signature (Principal Investigator)

Bio-data of Principal Investigator

**Name Designation
Affiliation :**

**Past
Affiliation(s) :**

Date of Birth :

**Category (kindly
X the box):**

General

SC

ST

OBC

Others

**Academic
Qualifications :**

List of previous Projects / Beam Times at IUAC (if any) :

<i>AUC No.</i>	<i>Sanctioned Year/Month</i>	<i>Title</i>	<i>Status: completed or running</i>

**Brief Research
Experiences :**

Signature of PI

15. Brief summary of all the projects (Completed / Continuing) by using IUAC facilities.



(Additional sheet may be added, if required.)

Signature of PI