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

## INFORMATION ABOUT BTR - FORMS

<table>
<thead>
<tr>
<th>Form No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTR-1</td>
<td>Beam Time Request for Fresh Proposals</td>
</tr>
<tr>
<td>BTR-2</td>
<td>Beam Time Account (BTA) for Thesis Proposals</td>
</tr>
<tr>
<td>BTR-3</td>
<td>Request of Funds (along with Beam Time) for Fresh Proposals from Universities</td>
</tr>
<tr>
<td>BTR-4</td>
<td>Beam Time Request for Ongoing Proposals</td>
</tr>
</tbody>
</table>

## Proposal No.
A U C [ ] [ ] [ ] [3] [ ] [ ] [ ] [ ] (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 PROJECT

________________________________________________________________________
________________________________________________________________________

## 2. PRINCIPAL INVESTIGATOR:

Name

________________________________________________________

Designation

________________________________________________________

Affiliation

( Institute/University)

Category

Please tick the relevant one:

- General
- SC
- ST
- OBC
- Others

Mailing Address

________________________________________________________________________

Pin

Telephone

__________ (Office) ___________ (Residence)

Mobile No.

E-Mail

Fax

## 3. CO-INVESTIGATORS / COLLABORATORS
(including IUAC personnel, Research Scholars) *

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Name</th>
<th>Affiliation</th>
<th>Contact Phone No. &amp; Fax No.</th>
<th>E-Mail Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. BUDGET PROJECTION

<table>
<thead>
<tr>
<th></th>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Fellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contingency/Consumables</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: For travel AUC allots a certain amount every year and TA/DA is paid by IUAC.

5. Details of financial requirements: (Description of contingency/consumables etc along with itemized cost to be given on separate sheet with appropriate justification).

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

7. Organization/authority responsible for the disbursement of the funds.

8. Forwarding Authority of the University:-
Note: REGARDING UTILIZATION CERTIFICATE ETC. UGC GUIDELINES ARE FOLLOWED

Name                  Designation                  Signature with date (Stamped)

9. 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.

<table>
<thead>
<tr>
<th>No. of runs proposed</th>
<th>No. of shifts proposed in each run</th>
<th>(I Run)</th>
<th>(II Run)</th>
<th>(III Run)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Ion species (with Mass no.)</th>
<th>Energy (MeV)</th>
<th>Current (pA)</th>
<th>DC/Pulsed</th>
<th>Charge state (if relevant)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Max.</td>
<td>Min.</td>
<td>Max.</td>
</tr>
</tbody>
</table>
11. (A) **BEAM LINE TO BE USED** (please tick the appropriate one):

- BIO
- LIBR
- HIRA
- MAT.SC.
- GDA
- GPSC

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

<table>
<thead>
<tr>
<th></th>
<th>Prior to run</th>
<th>After the run</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the Beam Line</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For the Data Acquisition System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. **TARGET / SAMPLE DETAILS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness (µg/cm²)</th>
<th>Backing (if any)</th>
<th>Any special property</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note:

1) 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.

2) 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.

13. **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)

**Form No. BTR-3 for funds & beam time**

14. **SCIENTIFIC MOTIVATION**:

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

15. **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)

Note: Use annexure for figures/tables/references for items 13, 14 & 15 above.

16A. Name and Affiliation of the theoretical physicist(s) associated with this proposal:

16B. Theoretical simulations / calculations in support of the experimental ideas:

(Limit to maximum of 100 words only)

17. Have you used the IUAC Pelletron before?

   If yes, when? Which beam(s)?

Publications, if any from the project:

18. Signatures of principal Investigator and all co-investigators:

   Co-Investigators: 1.
   2.
   3.

Date: ___________________________ Signature (Principal Investigator)

**E-Mail to**: academic@iuac.res.in

Send hard copy to: The Convenor, AUC, Inter-University Accelerator Centre,
Post Box No.10502, Aruna Asaf Ali Marg, New Delhi 110 067, India
[Phone: 26893955 / 26892601, Fax (91-11)-26893666]

**Last date for submission**: May 31 for July AUC // Nov. 10 for Dec. AUC
Bio-data of Principal Investigator

Name Designation
Affiliation:

Past
Affiliation(s):

Date of Birth:

Contact No:-

E-Mail ID:-

Category
(Kindly X the box):
General   SC   ST   OBC   Others

Academic
Qualifications:

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

<table>
<thead>
<tr>
<th>AUC No.</th>
<th>Sanctioned Year/Month</th>
<th>Title</th>
<th>Status: completed or running</th>
</tr>
</thead>
</table>

Brief Research Experiences:

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

(Additional sheet may be added, if required.)

Signature of PI