

# ASSAM DON BOSCO UNIVERSITY

Tapesia Gardens, Kamarkuchi Sonapur, Assam - 782402

## Advertisement for JRF

Applications are invited from freshly graduate students of M. Sc. (Physics) to work as a Junior Research Fellow in a Plasma & Fusion Research Committee (P&FRC), BRNS, Department of Atomic Energy sponsored project entitled “Studies on nitriding of tungsten under ITER Divertor like plasmas”.

### Eligibility:

- MSc in Physics with consistently good academic record
- Having qualified NET/GATE is preferable
- Motivated for Experimental Research

### Last Date for Application:

Send your Application Letter and CV latest by **11 November 2017** to Dr. Monmoyuri Baruah - monmoyuri.baruah@dbuniversity.ac.in with a copy to Dr. Mayur Kakati - mayur@cppipr.res.in

### About the Project:

It is a collaborative project between Department of Physics, Assam Don Bosco University, Tapesia, Sonapur and CIRCLE-PSI Laboratory, Centre of Plasma Physics-IPR, Nazirakhat, Sonapur. Successful candidate will get the opportunity to work in the state of the art facility named CIRCLE-PSI device at CPP-IPR that was established recently for controlled plasma fusion research relevant studies. Project and scholarship duration is 2 years.



**CIRCLE-PSI Laboratory, Centre of Plasma Physics-Institute for Plasma Research (CPP-IPR)** CPP-IPR is a research center of IPR (Dept. Atomic Energy), Gandhinagar, for basic and application oriented studies in plasma physics. It is important to understand, in the context of ITER, the biggest tokamak fusion machine being built at France, how the plasma with unprecedented ion and heat flux will interact with the walls of the device! CIRCLE-PSI at CPP-IPR reproduces the plasma parameters expected in the ITER Divertor region, for investigation of the plasma surface interaction (PSI) issues under simulated conditions.

**Assam Don Bosco University** is the first private state University of Assam, accredited by NAAC and conferred 12B status by UGC. The Department of Physics has been in existence from the inception of the University (2008). The department currently has M. Sc. programme in different specialization and research programs in various focused areas of physics with well equipped laboratories. Now, the department is entering into plasma physics in collaboration with CPP – IPR. The department is located at the picturesque Tapesia campus, surrounded by tea gardens with excellent academic ambience.

The background of this poster shows FESEM picture of surface nanostructures grown on tungsten by helium plasma irradiation in CIRCLE-PSI

x5,000

15.0kV LED

1μm

CSMCRI

SEM