Postdoctoral Position in Astrophysics: Accretion and Jets

NYU Abu Dhabi

New York University Abu Dhabi (NYUAD) is currently inviting applications for a Postdoctoral Fellow in Astrophysics. The current postdoctoral position is with Principal Investigator (PI) Assistant Professor Dave Russell in the area of accretion onto compact objects. Stellar-mass black holes residing in X-ray binaries (XBs) produce the most powerful jets in our galaxy via accretion from an orbiting companion star. Studies of XBs are now starting to reveal how jets evolve with mass accretion rate and the mode of accretion, providing insights into the conditions required to launch jets. The main objective of the research program of the PI is to uncover the nature of relativistic jets and understand the connections between accretion and ejection. A host of techniques and approaches will be employed, in particular using a wealth of multi-wavelength data of transient XBs (photometry, spectra and polarimetry), interactions between jets and the interstellar medium and data from other accreting objects such as AGN, CVs and gamma-ray bursts. Funds are available for travel to conferences, collaborations or observing trips.

The terms of employment feature a very competitive salary and benefits package (including relocation, housing, insurance, transportation and conference travel support). The position is offered for a period of 3 years (1 year with an additional 2 years depending on performance) pending candidate availability and obtaining proper governmental approvals.

Candidates with interest and experience in the study of accreting black holes or neutron stars, and candidates with experience in multi-wavelength data analysis and spectral modelling, are strongly encouraged to apply. Successful candidates will be encouraged to develop independent projects in addition to supporting the research of the PI. Candidates must hold, or be in the process of completing, a Ph.D. degree in Astronomy, Physics, Astrophysics or a related subject and have demonstrated a strong research background.

The Physics group at NYUAD is rapidly growing, with currently (March 2016) 10 faculty members and 8+ postdoctoral researchers. The group shares close links with staff at NYU in New York, who often visit NYUAD.

Applicants must submit a cover letter, curriculum vitae and a list of publications. To complete the online process, applicants will be prompted to enter the names and email addresses of at least three referees. Each referee will be contacted to upload their reference letter. Applications submitted by 1st April 2016 will be given full consideration; the position will remain open until filled. Please visit our website at [http://nyuad.nyu.edu/en/about/careers/faculty-positions.html](http://nyuad.nyu.edu/en/about/careers/faculty-positions.html) for instructions and other information on how to apply. If you have any questions please contact dave.russell@nyu.edu.

About NYUAD:
New York University has established itself as a Global Network University, a multi-site, organically connected network encompassing key global cities and idea capitals. The network has three foundational degree-granting campuses: New York, Abu Dhabi, and Shanghai, complimented by a network of eleven research and study-away sites across five continents. Our students are drawn from around the world and surpass all traditional recruitment benchmarks, both US and global. Faculty and students will circulate within this global network in pursuit of common research interests and the promotion of cross-cultural and interdisciplinary solutions for problems both local and global.

Entering its sixth year, NYU Abu Dhabi has recruited a cohort of faculty who are distinguished in their research and teaching. NYU Abu Dhabi’s highly selective liberal arts enterprise is complemented by an institute for advanced research, sponsoring cutting-edge projects across the Arts, Humanities, Social Sciences, Sciences, and Engineering.

EOE/Minorities/Females/Vet/Disabled