



Scientists in the Cosmos – SIC

In affiliation with Nuclei in the Cosmos – IX
CERN, Geneva, June 25-30, 2006

JOB OFFER

- Position :** post doctoral
- Main fields of interest :** theoretical nuclear astrophysics, stellar evolution, population synthesis
- Institution :** Centre for Stellar and Planetary Astrophysics, Monash University/ Australia
- Duration of contract :** 2 years
- Starting from...** Flexible, Jan 2007 roughly
- Bursary/ salary:** Salary range: \$56,574 - \$ 60,728 per annum, (Research Fellow Level A)
- Qualification :** Applicants should have a PhD degree in astrophysics or a related discipline.
- Contact:** John Lattanzio
- Email:** john.lattanzio@sci.monash.edu.au
Tel: 61-3-9905 - 4428 Fax: 61-3-9905- 4403
- Comments :** The position is based at the Clayton Campus of Monash University in the suburbs of Melbourne, one of the world's "most livable cities". Melbourne is a large multi-cultural city (3 million people) and is arguably the centre of cultural activities in Australia, especially music. It is located on the coast and surrounded by wine country

Job description:

Applications are invited for a postdoctoral research fellow to work on stellar nucleosynthesis and modelling within the Centre for Stellar and Planetary Astrophysics. The Centre is housed within the School of Mathematical Sciences. The successful applicant should be an active researcher with a PhD in astrophysics or a related discipline. Areas of specialization could include modelling of evolution and nucleosynthesis in AGB stars and/or supernovae, and/or stellar population synthesis and/or galactic chemical evolution.

Areas of active research at present include the composition and yields of AGB stars across all masses and compositions. Particular interest at present is on

- a) the first generations of stars and the implications for the extremely metal poor halo stars
- b) Super-AGB stars and their yields
- c) abundance anomalies in globular cluster stars
- d) stellar yields and galactic chemical evolution
- e) pre-solar grain abundances and predictions from stellar models
- f) population synthesis and nucleosynthesis
- g) pre-solar grain predictions and distributions

The work is funded by an Australian Research Council grant held jointly by John Lattanzio, Peter Wood, David Lambert, Ernst Zinner and Stan Woosley. The position is for a two-year fixed term, **starting in Jan 1st, 2007 or earlier if possible.**

Applicants should send a CV, list of publications, and research interests to Prof John Lattanzio, School of Mathematical Sciences, Monash University, Victoria 3800, Australia **by August 31, 2006.** They should also arrange for three letters of reference also to be sent to Lattanzio at the same address. Monash University is an Equal Opportunity Employer