

## Postdoctoral Fellowship on La Silla – NTT Upgrade Project

In the framework of the Very Large Telescope Programme, ESO has undertaken a project to upgrade the 3.5-m New Technology Telescope (NTT) in order to test operational concepts and software for the VLT. As part of this development, ESO is offering a fellowship to a qualified optical astronomer who would like to participate in this programme. In addition to carrying out an independent research programme (50%), specific duties (50%) would include support of Visiting Astronomers and calibration and performance control of the instrumentation on the NTT. This position is intended to offer the recipient the opportunities both to develop an independent research programme with the facilities of a major observatory and to contribute to the realisation of the NTT Upgrade Project.

The successful candidate will be expected to work in close collaboration with the scientists and engineers of the NTT Team to ensure the success of the NTT upgrade project. Scientifically, collaboration with the Astronomy Support Department (ASD) of ESO-Chile is encouraged. Current research interests within the ASD are: active galactic nuclei, star formation, supernovae, RR Lyrae stars, chemical abundances, the interstellar medium, the activity of cool, and magnetic stars. Knowledge of modern software utilities is a requirement. Candidates acquainted with (surface-) photometric techniques are especially encouraged to apply.

The ESO fellowships are granted for a period of one year, renewable for a second year and exceptionally for a third year.

The monthly basic salary will not be less than DM 5279, to which are added an expatriation allowance of 30–45% as well as a mountain allowance of 5–10%.

Starting date: As soon as possible.

Applications should be submitted to ESO **not later than July 20, 1995**. Applicants will be notified by October 31, 1995. Application forms are available from

ESO Personnel and General Services (PGS), Karl-Schwarzschild-Str. 2, D-85748 Garching bei München, Germany.

Applicants should arrange for 3 letters of reference to be sent by the same date directly to PGS.

For further information: contact the NTT upgrade project scientist (Internet: dbaade@eso.org).

## Staff Astronomer (ESD 208)

08.06.1995

Grade 9/10

Science Division at the ESO Headquarters in Garching near Munich, Germany.

This post is open to suitably qualified men and women.

**Education:** PhD in Astronomy, Astrophysics or Physics.

**Experience and knowledge:** Candidates must have several years of postdoctoral research experience, and have contributed significantly to at least one area of modern astrophysics. They must also have substantial experience in the use of large ground-based telescopes. Evidence of an interest and a demonstrated skill in exploiting telescopes and their instruments to their limits will be looked for.

**Assignment:** The successful candidate will be expected to carry out a significant programme of personal research for up to 50% of the time. The appointee will also work in the Science Division with the Associate Director for Science (J. Bergeron) in strengthening interactions between the Science Division and the VLT and Instrumentation Divisions. The appointee will provide scientific input for VLT instrumentation in particular for pipe-line calibrations and archiving of the optical spectrographs FORS and FUEGOS. The appointee will also supervise the VLT instrumentation-related functional work carried out by ESO Fellows.

Three letters of recommendation from persons familiar with the scientific work and observational experience of the applicant should be sent to ESO, Personnel Services, directly.

**Duty station:** Garching near Munich, Germany.

**Starting date:** As soon as possible.

**Contract:** This position is a three-year, renewable contract and may lead to a tenure staff appointment. Serious consideration will be given to outstanding candidates willing to be seconded at ESO on extended leaves from their home institutions.

**Remuneration:** The remuneration for this post will be commensurate with the background, experience and family status. The basic monthly salary (tax-free) will be in the range of DM 6.845,- to DM 9.583,-. Furthermore, an expatriation allowance as well as some other allowances may be added.

Application forms may be obtained from ESO, Personnel Services, Karl-Schwarzschild-Str. 2, D-85748 Garching bei München, Germany.

Applications should be submitted **before 20 July 1995**.

## New ESO Publications

(March – May 1995)

**Scientific Report No. 16:** Fourth Catalogue of Stars Measured in the Long-Term Photometry of Variables Project (1992–1994).

### Scientific Preprints

1068. F. Murtagh, J.-L. Starck, A. Bijaoui: Image Restauration with Noise Suppression Using a Multi-Resolution Support. *AA*.
1069. U. Lindner et al.: The Structure of Supervoids – I. Void Hierarchy in the Northern Local Supervoid. *AA*.
1070. S. Cristiani et al.: The ESO Key-Programme "A Homogeneous Bright QSO Survey" – I. *AA*.
1071. J. Rönnback and N. Bergvall: Blue Low Surface-Brightness Galaxies. II. Spectroscopy and Chemical Abundances. *AA*.
1072. J.K. Kotilainen et al.: The Nature of the two Nuclei in the Young Merger NGC 3256: An Obscured AGN? *AA*.
1073. D. Minniti: Spectroscopy and IR Photometry for Giant Stars in Obscured Globular Clusters: NGC 6325, NGC 6401, NGC 6440, NGC 6517, NGC 6642, HP1 and PAL6. *AA*.
1074. D. Minniti: Abundances and Velocities for Open and Globular Giants: The Data. *AA*.
1075. N.N. Chugai, I.J. Danziger, M. Della Valle: Optical Spectrum of SN 1978K: Emission from Shocked Clouds in the Circumstellar Wind. *M.N.R.A.S.*
1076. F. Murtagh, A. Aussem, M. Sarazin: Nowcasting Astronomical Seeing: Towards an Operating Approach. *P.A.S.P.*

1077. P.A. Shaver: High Redshift Quasars. Invited paper presented at the 17th Texas Symposium, 12–16 Dec. 1994; to appear in *17th Texas Symposium on Relativistic Astrophysics and Cosmology* (ed. H. Böhringer et al., Ann. New York Academy of Science).
1078. N.Y. Lu and W. Freudling: Large-Scale Structures in the Zone of Avoidance: The Galactic Anticenter Region. *ApJ*.
1079. G. Carraro and F. Patat: The Stellar Content of the Open Clusters Tomabaugh 1 and Rupprecht 46. *M.N.R.A.S.*
1080. P. Frisch et al.: Evolution of the Supercluster-Void Network. *AA*.
1081. M. Bobrowsky et al.: He 3–1475 and its Jets.
1082. H.E. Schwarz, L.-Å. Nyman, E.R. Seaquist, R.J. Ivison: A Search for SiO Maser Emission from Symbiotic Miras. *AA*.
1083. W. Freudling et al.: Determination of Malmquist Bias and Selection Effects from Monte-Carlo Simulations. *A.J.*
1084. G. Meylan, M. Mayor, A. Duquenooy, P. Dubath: Central Vlocity Dispersion in the Globular Cluster  $\omega$  Centauri. *AA*.
1085. F. Courbin et al.: Photometric Monitoring (1987 to 1994) of the Gravitational Lens Candidate UM 425. *AA*.

### Technical Preprints

66. S. D'Odorico: Array Detectors and Instruments for the ESO VLT. Highlights of IAU Symposium No. 167. Review papers to be published in the Proc. of the IAU Symp. No. 167, "New Developments in Array Technology and Applications".
67. Very Large Telescope – Instrumentation. Papers submitted to the International Conference "Scientific and Engineering Frontiers for 8–10m Telescopes". 4–6 October 1994, Tokyo, Japan.