The CSSM Lattice Collaboration expects to make an appointment at the level of Postdoctoral Research Associate in the area of Lattice Gauge Theory. This position will primarily be of interest to theorists working in subatomic and strong interaction physics. Staff members leading the research efforts of the CSSM include Derek Leinweber, Tony Williams and Director, Tony Thomas. The current activities of the CSSM are primarily focused on the solution of QCD, and include lattice gauge theory, chiral symmetry, quark models, matter under extremes of density and temperature, sum rules and light-front quantization. This is complemented by studies of nonperturbative methods in quantum field theory, by phenomenological work using weak and electromagnetic probes to investigate strongly interacting systems and by studies in effective field theory and tests of fundamental symmetries.

We specifically seek a candidate to join the research efforts of the CSSM Lattice Collaboration. Current research is focused on revealing and understanding the nonperturbative properties of Quantum-Chromodynamics via numerical simulations of QCD. We have established expertise in a broad range of forefront areas including: improved actions such as the FLIC-Overlap fermion action; mass and renormalization functions of quark propagators; hybrid mesons; electromagnetic form factors of hadrons; and baryon resonance phenomenology, to name a few. We seek a candidate interested in contributing to these exciting areas of study. The CSSM has generous access to massively parallel supercomputers dedicated to lattice gauge theory, including a new Teraflops facility to be commissioned in early 2003.

You should have:

- A Ph.D. in physics or related discipline,
- Directly relevant research experience and expertise demonstrated by significant publications in international refereed journals,
- Advanced analytical and computational skills,
- A genuine desire to contribute to the solution of the problems being addressed at the CSSM.

Salary: $41,483 - 50,523

This fixed-term position is available from September 2003 (an earlier starting date may be possible), for a period of two years. Further details about the duties of the positions, including selection criteria, may be obtained from Dr. Derek Leinweber, Special Research Centre for the Subatomic Structure of Matter, telephone (08) 8303 3423, email: dleinweb@physics.adelaide.edu.au. Further information on the CSSM is available at http://www.physics.adelaide.edu.au/cssm/.

Applications, addressing the selection criteria and including the names, addresses and email details of three referees, should be forwarded to Search Committee, CSSM, Adelaide University, South Australia 5005, Australia. Electronic applications are welcome and should be sent to cssm@adelaide.edu.au. For full consideration, applications should be received by January 31, 2003.

AUSTRALIAN (HES):
HR WEB PAGE: http://www.adelaide.edu.au/HR/advpos.htm