

CLASSIFICATION/GRADE .. ARC Research Associate.

POSITION NO. .

DEPARTMENT Special Research Centre for the Subatomic Structure of Matter (CSSM) and Department of Physics

NO.	ESSENTIAL MINIMUM CRITERIA
1.	<p>Qualifications: A Ph.D. in physics or related discipline is required.</p>
2.	<p>A commitment to research excellence in theoretical physics, particularly in the area of hadronic and nuclear structure. This should be evidenced by:</p> <ul style="list-style-type: none"> <li>(a) experience, demonstrated expertise and publications in reputable refereed journals specially in QCD and strong interaction physics or particle physics phenomenology.</li> <li>(b) publications in reputable refereed journals in areas of relevance to the Centre such as: <ul style="list-style-type: none"> <li>Lattice QCD</li> <li>Nonperturbative field theory and nonperturbative renormalization</li> <li>Chiral effective field theory</li> <li>Topology and Confinement</li> <li>Quark models - especially chiral quark models</li> <li>Dense nuclear matter</li> <li>Electromagnetic and weak probes of strongly interacting systems</li> </ul> </li> <li>(c) Advanced analytical and computational skills, including demonstrated ability to perform numerical calculations using the FORTRAN programming language and Mathematica.</li> <li>(d) Citations</li> </ul>
3.	<p>Personal Qualities</p> <p>Ability to communicate effectively both verbally and in writing Effective interpersonal skills to enhance positive interaction and constructive cooperation.</p>

DESIRABLE CHARACTERISTICS
<p>Expertise in two or more areas of relevance to the Centre</p>