POSITION: SENIOR SCIENTIST, ADVANCED COMPUTING ARCHITECTURES, ST-0801/1550*

SALARY: $119,363 - $142,500 per annum; however, authority to approve a higher executive salary level has been proposed for this position. Exceptionally qualified candidates outside the government may be eligible for a recruitment bonus. This position could be filled through the Intergovernmental Personnel Act (IPA). This position is designated precedence priority code DV-6 for protocol purposes.

LOCATION: Department of the Air Force (USAF), Air Force Materiel Command (AFMC), Air Force Research Laboratory (AFRL), Information Directorate, Rome NY.

AREA OF CONSIDERATION: Applications will be accepted from all qualified persons. Consideration will be extended without discrimination for any nonmerit reason such as race, color, religion, gender, national origin, political affiliation, marital status, age, membership or nonmembership in any employee organization, or nondisqualifying physical handicap.

**APPLICATIONS MUST BE RECEIVED IN THIS OFFICE BY THE CLOSING DATE OR THEY WILL NOT BE CONSIDERED**

1. BASIC DUTY SUMMARY: Serves as senior research scientist and independent researcher in the field of advanced computing architectures. The incumbent serves to focus research and development efforts associated with advanced computing architectures and to strengthen the in-house activities of the laboratory. Conceives, plans, and advocates major research and development activities; consults with the Director, division chiefs and staff concerning the total research program and results; monitors and guides the quality of scientific and technical resources; and provides expert technical consultation to other Air Force organizations, DOD and government agencies, universities and industry. Position requires an internationally recognized authority in the field of advanced computing architectures with the ability to conceive, conduct and lead advanced research and development. The incumbent must make significant contributions to the advancement of knowledge in the field as evidenced by numerous important scientific publications and by citation of the work by others, and by receipt of patents and/or awards.

2. MANDATORY MINIMUM QUALIFICATION: The following requirements are essential for successful performance in the position:

   a. SPECIALIZED EXPERIENCE: The candidate must have at least three years of specialized experience in the broad area of advanced computing architectures including high performance computers, embedded computer architectures, microprocessor architectures, fault tolerant architectures, distributed or meta-computing architectures, cluster computing, massively parallel computer architectures, adaptive or polymorphous computing architectures, and next generation computing architectures based on quantum, biological, photonic, or nanoscale components aimed at decreasing the cost and improving the performance of AF/DOD systems. At least one year of this experience must demonstrate that the candidate has experience in planning and executing difficult research activities resulting in outstanding attainments in advanced computing architectures; or planning and executing specialized programs of national significance in exploratory and advanced development of advanced computing architectures.

   b. ADDITIONAL FACTORS to be considered in determining the candidate's qualifications include:

      (1) *This is an interdisciplinary position. Educational background to include a bachelor's degree in an appropriate professional or scientific discipline is required. A graduate degree in a pertinent discipline is expected. A doctorate degree in a relevant field is highly desirable.

      (2) Contributions and professional reputation in the field of advanced computing architecture research and development evidenced by citations, patents, publications (including refereed publications in relevant archival journals), which impact knowledge in the field. Status in the profession as indicated by memberships and activity in professional and scientific/engineering societies; honors, awards, and other recognition; and leadership in the scientific/engineering community. Election as a Fellow of a professional and scientific society or other comparable national/ international recognition is highly desirable.

      (3) The candidate must demonstrate instances where critical judgment and the application of a high degree of originality and creativity were used in the resolution of scientific problems, and demonstrate the ability to establish good working relationships with people, both within and outside of government. In addition, the candidate must be able to communicate articulately and deal easily with other executive level personnel.
Applicant Profile

In the past, successful candidates for ST positions in the Air Force have had 10 to 15 years of progressively responsible research work after attainment of a PhD which significantly advances knowledge in the field. This work has included authorship of numerous refereed publications such as in archival journals, books, or book chapters, national or international peer group activity, and recognition as a Fellow of a professional society.

3. ADDITIONAL INFORMATION:

   a. LOCATION. Position is located in the beautiful four-season Mohawk Valley in central New York State at the Griffiss Business and Technology Park. The immediate region features some of the nation’s top academic institutions such as Cornell University, Syracuse University, University of Rochester, University of Massachusetts, the State University of New York at Buffalo and a host of other universities, colleges and junior colleges.

   b. TRAVEL. Travel by air, including military air, is required.

   c. SECURITY CLEARANCE. The candidate must have or be able to obtain a TOP-SECRET security clearance.

   d. EXECUTIVE PERSONNEL FINANCIAL DISCLOSURE REPORT (Standard Form 278). Selectee must file this report in accordance with the Ethics in Government Act of 1978 (PL 95-521). In addition this position is subject to the post-employment restrictions of Sections 207(a) and (f) of Title 18, United States Code.

   e. DRUG TESTING POSITION: Incumbent is subject to random urinalysis for drug use as a condition of employment.

4. HOW TO APPLY: To receive full consideration, each applicant must submit AN ORIGINAL AND 6 COPIES of the following:

   Please provide information in the order stated below. If copying your application package 2-sided, please make sure all pages are copied upright—not head-to-foot. Do not individually bind or staple copies. You may, however, 3-hole punch the 6 copies of your application package.

   **ORIGINAL + 6 copies**

   a. RESUME: Resume or OF-612, Optional Application for Federal Employment. A resume is the preferred format. OF-612 may be submitted but is not encouraged. If submitting a resume, please refer to the attached resume format.

   b. TECHNICAL QUALIFICATIONS STATEMENT: Provide specific examples of your experience, education and accomplishments which directly respond to the SPECIALIZED EXPERIENCE/ADDITIONAL FACTORS listed in paragraph 2. (Not to exceed 4 pages). Further information is provided in paragraph 8.

   c. A List of Publications that you have authored. Provide title, date, and any co-authors, clearly indicate if you are the first author and state the impact of any publication on the scientific and/or technical community.

   d. A copy of your Most Recent Appraisal/Evaluation.

   e. If a current or former government employee, a copy of your Most Recent SF-50, Notification of Personnel Action, which shows current pay status.

   **ORIGINAL ONLY**


   g. An SF-256, Self Identification of (Reportable) Handicap. This form is voluntary and is available from World Wide Web (WWW) Site: http://www.opm.gov/forms/html/sf.asp

**DO NOT SUBMIT ANY ADDITIONAL INFORMATION.** Superfluous materials, such as copies of position descriptions, award certificates and transmittal letters, will not be forwarded for review.
SEND THE ORIGINAL AND 6 COPIES OF YOUR COMPLETED APPLICATIONS PACKAGE TO THE FOLLOWING ADDRESS:

HQ AFMC/DPK (AF-ST 03-05)  
SENIOR CIVILIAN MANAGEMENT  
4375 CHIDLAW RD, RM B221  
WRIGHT-PATTERSON AFB OH 45433-5006

(Please do not staple or bind and three hole punched is preferred):

5. WHEN TO APPLY: FORWARD YOUR COMPLETE APPLICATION PACKAGE SO THAT IT WILL BE RECEIVED IN THIS OFFICE BY THE CLOSING DATE shown on the first page of this vacancy announcement. Questions regarding this announcement may be directed to Ms. Leola Lee at (937) 257-1094.

6. METHOD OF EVALUATION OF CANDIDATES: Applications will be evaluated against the foregoing qualification requirements. Failure to meet any one of the mandatory minimum qualification standards will eliminate a candidate from further consideration.

Candidates’ qualifications for this position will be evaluated by a screening panel composed of a diverse mix of senior executives selected for organizational and/or functional backgrounds relevant to this position. The panel members will individually review each of the applications in terms of the qualifications criteria contained in this announcement. Then, they will meet to discuss each application, and reach a consensus decision as to the best qualified, qualified or not qualified candidates based upon the documentation submitted. The panel will determine the need to interview all of the best qualified candidates or the most highly qualified of this group based upon consistently applied criteria. All best qualified candidates are referred to the selecting official, the AFMC Commander, in priority order. Final selection of a candidate is contingent upon the Secretary of the Air Force approval.

This agency provides reasonable accommodations to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please notify the office identified in paragraph 4. The decision on granting reasonable accommodation will be on a case-by-case basis.

Learn more about the organization by visiting the following Web sites:

Information Directorate http://www.rl.af.mil
Air Force Research Laboratory: http://www.afrl.af.mil

SELECTION WILL BE BASED SOLELY UPON MERIT AND QUALIFICATIONS WITHOUT DISCRIMINATION BECAUSE OF RACE, COLOR, CREED, RELIGION, SEX, MARITAL STATUS, PHYSICAL OR MENTAL HANDICAP, NATIONAL ORIGIN, AGE, POLITICAL AFFILIATION, OR ANY OTHER NON-MERIT FACTOR.

THE AIR FORCE IS AN EQUAL OPPORTUNITY EMPLOYER
7. **APPLICATION/RESUME:** A signed and dated Resume in the following format is required and should be typewritten.

**Job Information:** Announcement number (AF-ST 03-05) and title of the job to which you are applying.

**Personal Information:** Full name, mailing address (with Zip Code), day and evening phone numbers (with area code), and complete E-Mail address where you would like to receive correspondence regarding your application.

**Social Security Number (SSN):** We request your SSN under the authority of Executive Order 9397 in order to keep your records straight; other people may have the same name. As allowed by law or Presidential directive, we use your SSN to seek information about you from employers, schools, banks, and others who know you. Your SSN may also be used in studies and computer matching with other Government files, for example, files on unpaid student loans. If you do not give us your SSN or any other information requested, we cannot process your application, which is the first step in getting a job.

**Country of citizenship**

**Lowest pay you will accept** (For individuals who are not current federal employees)

**Highest Federal civilian grade held** (Also give job series and dates held)

**Education:** High school (Name, City, and State (Zip Code if known) & Date of diploma or GED
For all Colleges or Universities attended, provide the Name, City, and State (Zip Code if known); Major(s); and Type and year of degree(s) received (if no degree from a particular school, show total semester or quarter credits earned and dates attended)

**Work Experience:** Give the following information for your paid and non paid work experience related to the job for which you are applying. (Do not send job descriptions.)

- Starting and ending dates (month and year)
- Job title (for government position, include civilian series and grade or military rank)
- Employer's name and address
- Supervisor's name and phone number *Indicate if we may contact your current supervisor
- Salary
- Hours per week
- Number of employees supervised
- Duties and accomplishments (summarized in one paragraph)

**Other Qualifications**

- Job-related training courses (title and year)
- Job-related skills, for example, other languages and computer software/hardware
- Job-related certificates and licenses (current only)
- Job-related honors, awards, and special accomplishments, for example, publications, memberships in professional or honor societies, leadership activities, public speaking, and performance awards (Give dates but do not send documents unless requested.)

**References:** Provide the names, addresses, and telephone numbers of three individuals who can comment on your qualifications for this position. (Please do not list supervisors already listed above.)
8. **TECHNICAL QUALIFICATIONS STATEMENT:** Included as a separate attachment that does not exceed 4 pages.

The Technical Qualifications Statement is a narrative explanation of your background and experience relative to the Mandatory Specialized Experience requirements (Para 2a) and each of the Additional Factors (Para 2b(1-3)). This qualifications statement must show that your record of experience, education, and accomplishments reflects the competence and professional standing needed to provide scientific leadership in the field. To ensure that the screening panel of scientific managers and technical experts has sufficient information to evaluate your credentials, the following approach is suggested:

Start your **Technical Qualifications Statement** with a brief summary (approximately 1/2 page) of your professional experience before addressing the specialized experience and additional factors. This gives the panel an overview of your qualifications.

In describing your **Specialized Experience**, provide one or more examples of your accomplishments in the technology area(s) required. Explain these accomplishments in terms of three elements:

1. Identify specific research objectives or project activities in which you participated and describe what you did.
2. Describe the context, or environment, within which these actions occurred. Mention other individuals (by title) or groups involved.
3. Tell the outcomes of your actions. These indicate the quality and effectiveness of your contributions and demonstrate the ability to achieve results, a key requirement of technical leadership positions.

Then, ensure that you have addressed each of the **Additional Factors** in your Technical Qualifications Statement.

1. Academic degree(s) and field(s) of study, and how they relate to this position.
2. Evidence of your contributions to the field and your professional standing. These factors should be included in your discussion of the outcomes of your work described in the Specialized Experience. You may choose to list notable honors, awards, professional affiliations and leadership activities as an attachment.
3. Demonstrated technical and/or scientific judgment and creativity. Similarly, your Specialized Experience should include instances where critical judgment and the application of a high degree of originality and creativity were used in the resolution of scientific problems, and demonstrate the ability to establish good working relationships with people, both within and outside of government.

In summary, your Technical Qualifications Statement should include evidence of the senior scientific experience and professional credentials needed to perform the duties of the position, and contain enough representative examples to provide a sound basis for panel members to assess the breadth and depth of your technical qualifications.

**NOTE:** A narrative description of 3-4 pages is normally sufficient. Pages in excess of the 4 page limit will not be forwarded for review. Technical Qualifications Statements which do not clearly address the qualifications criteria in terms of Specialized Experience and Additional Factors will not be considered adequate for evaluation.