

# Environmental Protection Agency

**Job Title:** COMPUTATIONAL/MEDICINAL CHEMIST

**Agency:** Environmental Protection Agency

**Job Announcement Number:** RTP-ORD-42-2014-0001

**SALARY RANGE:** \$152,364.00 to \$200,000.00 / Per Year

**OPEN PERIOD:** Monday, December 02, 2013 to Monday, February 03, 2014

**SERIES & GRADE:** AD-0401/0415/0601/1301/1320-00

**POSITION INFORMATION:** Full-time - This is a term position of up to 5 years which may be renewed

**DUTY LOCATIONS:** 1 vacancy - Durham, NC

**WHO MAY APPLY:** Applications will be accepted from U.S. citizens and permanent residents as allowed by appropriations and statute.

## **JOB SUMMARY:**

The Office of Research and Development (ORD) is seeking an internationally recognized science leader for the position of Computational/Medicinal Chemist in the National Center for Computational Toxicology (NCCT) in Durham (Research Triangle Park), North Carolina. Learn more about NCCT at <http://www2.epa.gov/aboutepa/about-national-center-computational-toxicology-ncct>.

ORD is filling this position using EPA's Title 42 Authority, which offers up to 5-year renewable term appointments at highly competitive, market-based salaries. The salary may be up to \$200,000 per year, dependent upon qualifications, experience and other factors (e.g., current salary). The position is part of a larger EPA effort to use state-of-the-science approaches and technologies in its mission of protecting human health and the environment.

**SPECIAL NOTE:** The position is subject to the Ethics in Government Act of 1978. Appointment will be subject to applicant's completion of a background security investigation and favorable adjudication. Also, appointment will be subject to applicant's completion of a financial disclosure process which includes completing an OGE Form 278, Public Financial Disclosure Report.

## **KEY REQUIREMENTS**

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### **DUTIES:**

The Office of Research and Development (ORD), National Center for Computational Toxicology (NCCT) provides scientific leadership, understanding and tools related to the application of mathematical and computer models to technologies derived from computational chemistry, molecular biology and systems biology in order to improve the Agency's data reporting requirements, priority setting approaches to understanding chemical toxicity, and risk assessment approaches. The incumbent conducts research and provides leadership for the development and application of

computational chemistry or knowledge-driven medicinal chemistry approaches to identify chemical features associated with specific biological interactions or modes of action and predict specific manifestations of toxicity of environmental and industrial chemicals. These interactions cover both reactive chemistry and weak interactions (e.g., receptor binding, enzyme inhibition). The incumbent works collaboratively with biochemists and life scientists to construct and test hypotheses.

The incumbent's research and leadership result in methods and approaches that have the potential to contribute to the Agency's mission of increasing chemical safety and sustainability for the protection of human health and the environment. In particular, the incumbent leverages the principles of computational or medicinal chemistry in the development of tools that chemical regulators, researchers, and practitioners use to predict the hazard, pharmacokinetic, and exposure-related properties of new and legacy chemicals or as an adjunct to mode of action in risk assessment.

In addition to conducting and leading a research program, the incumbent:

- Works with EPA senior leadership to provide technical direction that integrates ORD's chemical safety and sustainability research across Agency initiatives, and establishes a robust scientific capacity that supports multidisciplinary Agency applications.
- Uses his or her expertise to help the Agency identify critical research and technical issues involved with the design of greener products.
- Communicates complex scientific concepts to a broad range of stakeholders, partners, and interested parties.
- Serves as a senior advisor to NCCT and ORD on computational or medicinal chemistry issues related to exposure and effects of environmental and industrial chemicals.
- Provides guidance, training, and support in these subject areas to scientists throughout EPA in their application to risk assessment and agency policy-setting.
- Represents the NCCT, ORD and the Agency in relevant outside activities, particularly in the translation of these activities to the fields of toxicology, exposure science and risk assessment.

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### **QUALIFICATIONS REQUIRED:**

If selected for this position, you will provide leadership across ORD in the activities stated previously.

To meet the eligibility criteria, you must have a doctoral degree in a scientific discipline related to NCCT's research and substantive specialized experience in either computational or medicinal chemistry. You should be sufficiently knowledgeable of toxicology to develop a framework for applying computational or medicinal chemistry approaches for toxicity prediction or as an adjunct to mode of action in risk assessment. You should be nationally and internationally recognized as an authority and leader in computational or medicinal chemistry. You should have received honors and

awards from major national and/or international organizations for your accomplishments or have led research and development programs that appropriately reflect professional recognition. You should be sought after as an advisor and expert on scientific and technological programs relevant to ORD's and NCCT's mission. As evidence of your qualifications and scientific contributions, you may also: 1) hold, or have held, elected position(s) in scientific societies; 2) have served on journal editorial boards; 3) have received an extensive number of invitations to write and speak on issues related to computational or medicinal chemistry; 4) have written numerous book chapters and peer reviewed publications in high quality journals; 5) have served in leadership roles on numerous task forces/committees; and/or 6) have been an advisor to national and international institutions/governments.

Appointment will be subject to your completion of a background security investigation and favorable adjudication.

#### **HOW YOU WILL BE EVALUATED:**

You will be evaluated on the basis of meeting the qualifications stated previously. In determining the degree to which candidates possess the required or desired knowledge, skills, and abilities, an evaluation panel will consider related experience, education, training, awards, and professional references.

**To preview questions please [click here](#).**

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#### **BENEFITS:**

Join EPA in protecting human health and the environment and enjoy many work life quality options!

Working for the EPA offers you a comprehensive benefits package that includes, in part, paid vacation, sick leave, holidays, life insurance, health benefits, and participation in the Federal Employees Retirement System. To explore the major benefits offered to most Federal employees, visit [Benefits](#).

#### **OTHER INFORMATION:**

This information is used to determine your qualifications for employment. The use of this information is authorized under Title 5 USC, Sections 3302 and 3361.

If you are selected, travel, transportation, and relocation expenses will be paid by EPA according to applicable rules. You can read more about these expenses on this web site:

<http://www.relocatefeds.gov/>

Non-U.S. citizens who are U.S. permanent residents may be appointed as allowed by appropriations and statute. For more information on Federal employment of non-U.S. citizens, go to

[https://help.usajobs.gov/index.php/Employment\\_of\\_Non-citizens](https://help.usajobs.gov/index.php/Employment_of_Non-citizens)

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#### **HOW TO APPLY:**

Send the following information:

- A cover letter (1-2 pages), including how your experience relates to the duties of the position;

- Curriculum vitae;
- The names and contact information for three references;
- Citizenship status;
- Compensation requirements;
- How you heard about this vacancy.

Please cite announcement number **RTP-ORD-42-2014-0001** in your application. Applications should be sent via email to **title42@epa.gov** or mailed to the attention of Ms. Dorothy Carr, U.S. EPA, HRMD, MD-C639-02, 109 TW Alexander Drive, Research Triangle Park, NC 27711.

**Applications must be received by 11:59 p.m. ET on February 3, 2014, in order to be considered. Applications will not be considered if submitted via USAJOBS.**

**REQUIRED DOCUMENTS:**

**Electronic submission of the application materials referenced above is encouraged.**

Applications sent via email must be submitted in a format readable by this office, such as MS Word, portable document format (PDF), rich text format (RTF), or plain text. Use of any format we cannot read may invalidate your application.

**AGENCY CONTACT INFO:**

*Dorothy Carr*

*Phone: 800-433-9633*

*Fax: 919-541-0160*

*Email: carr.dorothy@epa.gov*

*Agency Information:*

*Environmental Protection Agency*

*Human Resources Management Division*

*109 T.W. Alexander Drive, MD C639-02*

*Durham, NC*

*27711*

*US*

*Fax: 919-541-0160*

**WHAT TO EXPECT NEXT:**

For additional information, Ms. Carr can also be reached at (800) 433-9633. Technical questions pertaining to this vacancy may be addressed to Dr. Kevin Crofton at (919) 541-2672.

**Control Number: 355781100**

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[Back to top](#)