NOVARTIS

Senior Principal Analyst Curation and Ontology

Job ID
REQ-10013405
Jun 28, 2024
India

Summary

Novartis Biomedical Research (BR) is the global pharmaceutical research organization of Novartis. With approximately 5,400 scientists and physicians around the world, our research is focused on discovering innovative new drugs that will change the practice of medicine. We have an open and entrepreneurial culture, encouraging collaboration to make effective therapies. At BR, our mission is to discover innovative medicines that treat disease and human health. To do that, our scientists need cutting-edge, state-of-the-art computing systems and high-quality data. With BR - Research Informatics (RX), BR is making a strategic investment into informatics capabilities and is positioning itself to deliver the systems, data, and services that are critical to the future of drug discovery. The Scientific Data and Products (SDP) group in RX is driven to maximize the impact and value of software and data for BR. We deliver powerful, functional, and integrated software solutions that create a frictionless user experience. Our organization is here to build and apply excellence in product and data management to further Novartis drug discovery.

About the Role

Major responsibilities

- Act as a broadly experienced specialist who creates and maintain or select and internalize controlled vocabularies, taxonomies and ontologies using semantic web technologies and linked data principles in multiple areas: cell biology, genomics and proteomics, taxonomy (species) etc.
- Collaborate actively in the design and the implementation of automated extraction, conversion and/or aggregation of data from selected sources to build terminology and ontology content
- May coordinate the activities of a team of experienced specialists contributing to ontology authoring and engineering
- Provide dictionaries derived from controlled vocabularies and terminologies to support text extraction and named entity recognition
- Follow methods and procedures to apply data governance principles to manage ontologies and to guaranty high quality and data consistency across versions
- Contribute to the implementation of a solution to enable contextual usage of ontologies and facilitate requests for ontology enrichment and/or ontology composition within scientific products
- Raise awareness of the use of controlled vocabularies, ontologies and data management best practices to leverage interoperability of data and metadata
- Interact with BR scientists, business analysts, and product owners to provide guidance in integrating appropriate ontologies
- Promote use of underlying ontology services

Essential Requirements:

You are curious about data and passionate about extremely high data quality. You have managed scientific data, provisioned vocabularies, taxonomies and ontologies, are knowledgeable about semantics, ontology management tools, approaches, and evolving technologies that improve data value and interoperability.

- Practical experience in ontological authoring & engineering e.g. ontology development process, ontology life cycle, methodologies and tools such as CENtree (SciBite)
- Deep understanding of one or more drug discovery data domains such as biology, chemistry, or medicine
- Good knowledge of semantic web standards (RDF, SKOS, OWL, OBO) as well as linked data principles
- Experience with existing biomedical ontologies and data standards (Cellosaurus, Cell Ontology, Gene Ontology, HGNC, Uniprot, NCBI …)
- Competence in linguistics, natural language processing, text analytics, data mining or text processing
- Ability to query data management systems of different kind: RDBMS, NoSQL, Graph databases (Neo4J, Allegrograph)
- A track record of consistent, rapid, structured and effective execution with good attention to detail
- Great communication skills
- Self-motivated
- Ability to work both independently and with a team

Desirable Requirement:

- Ph.D. and/or M.D. or equivalent in biology, medicine, chemistry, or related field
- At least 3 years experience in semantic technologies, ontology management and data management
- 5+ years work experience in drug discovery or a core supporting scientific field

Why Novartis: Our purpose is to reimagine medicine to improve and extend people's lives and our vision is to become the most valued and trusted medicines company in the world. How can we achieve this? With our people. It is our associates that drive us each day to reach our ambitions. Be a part of this mission and join us! Learn more here: https://www.novartis.com/about/strategy/people-and-culture

You'll receive: You can find everything you need to know about our benefits and rewards in the Novartis Life Handbook. https://www.novartis.com/careers/benefits-rewards

Commitment to Diversity and Inclusion:
Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

Join our Novartis Network: If this role is not suitable to your experience or career goals but you wish to stay connected to hear more about Novartis and our career opportunities, join the Novartis Network here: https://talentnetwork.novartis.com/network

Why Novartis: Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together? https://www.novartis.com/about/strategy/people-and-culture

Join our Novartis Network: Not the right Novartis role for you? Sign up to our talent community to stay connected and learn about suitable career opportunities as soon as they come up: https://talentnetwork.novartis.com/network

Division

Biomedical Research

Business Unit

Pharma Research

Location

India

Site

Hyderabad (Office)

Company / Legal Entity

IN10 (FCRS = IN010) Novartis Healthcare Private Limited

Functional Area

Research & Development

Job Type

Full time

Employment Type

Regular

Shift Work

No

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Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

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