

## **DSRA Architecture**

Job Posting: Computer Aided Design (CAD) specialist  
Terms of Employment: Full-time

**Location: Halifax, Nova Scotia**

DSRA Architecture, located 5495 Spring Garden Road, Halifax, Nova Scotia is a robust architectural firm representing the leading edge of a seventy-year evolution in the field of building design. As a multi-disciplinary practice of talented architects and engineers working side-by-side, designing efficient and effective, high-quality buildings, each day we distinguish ourselves by the buildings we create and the ideas we promote. DSRA believes good design is an intelligent response to our client needs, and we achieve this by placing a premium on innovation and originality of thought. We have earned a reputation for providing our clients with service excellence over a broad range of building types and scales; each project delivered with responsible project management and tight budget control. Our distinctive and reliable service is well reflected by our many long standing clients, some of more than 50 years, who continue to turn to us for our smart and practical solutions to building design.

We provide insightful design solutions, feasibility studies, programming and interior design services to Corporations, Universities, Municipal and Provincial Government Departments. Some of our major clients include: Dalhousie University; Saint Mary's University; University of PEI; Mount Allison University; Halifax Regional Municipality; Public Works Government of Canada; DTIR – Department of Education

We continually seek ways to improve upon the process we use to design and deliver our projects. Our unique approach to the process and delivery of design is what distinguishes us from other firms. Our processes are supported by the Integrated Design Process, Sustainable Design and Building Information Modeling.

### **Job Description**

The position of CAD Specialist is part of DSRA's Project Management Team, responsible for managing the development and delivery of design documentation for tender. You will work directly with design team Architects and Engineers to help facilitate smooth and accurate delivery of information for design, coordination, and documentation.

The CAD Specialist will have good knowledge and understand the building design process and the integration and coordination of sub-consultant design information into the CAD model.

The CAD Specialist will be technically proficient with multiple products (such as AutoCAD, Revit, and Navisworks) and be able to provide tutelage to staff, consultants and trades on what is required for the BIM model at the different levels of engagement. In addition, proficiency is required in Solibri, Archicad, Sketchup, Sefaira, Dynamo and similar performing softwares.

### **Key Objectives**

- Develop a BIM Strategy and BIM Execution Plan in accordance with DSRA's goals for each Project.

- Review clash detection reports generated by the Architect and work closely with the design team to ensure that they are coordinating the design. Focus must be applied to the MEP and structural models to ensure that they are fully integrated and coordinated with the architectural model.
- Support the Cost Plan Teams and help inform the option appraisal process by testing design options and systems within the model.
- Work with the project team to devise and implement BIM related metrics than can be used to measure the success of BIM Implementation on the project.
- Produce a regular report to the Senior Management Team that serves to confirm progress, highlighting key risks and proposals to mitigate.
- Provide training and assistance to design team members in the use of BIM software and understanding the design process.
- Work with the diverse project teams to set up the project structure and data exchange formats.
- Work with external design consultants to improve the design exchange efficiency and streamline coordination.
- Work collaboratively with the Consultants and Project Team to deliver DSRA's key objectives for BIM. Strong leadership is of paramount importance to ensure that all parties adhere to the agreed strategy and support processes and good communication is essential to ensure that all key stakeholders are aware of progress.

## **Qualifications**

To be considered for the position of CAD Specialist, a candidate must possess the following qualifications and experience:

- Minimum of a Bachelor's Degree in Architecture. Master's Degree Preferred.
- 7+ years of BIM Coordination experience with 15+ projects over \$10 million.
- 10+ years of architectural design and production using CAD and BIM software.
- Comprehensive understanding of project workflows (schematic design, design development, construction documentation and construction phases) and project management.
- Extensive experience liaising with and understanding the different needs of the delivery team (architects, engineers, estimators and contractors).
- Technical knowledge of the BIM application used, related systems and IT network infrastructure

- Well versed with BIM 4D using synchro and Navisworks.
- Experience with BIM 5D cost and quantification.
- LEED certification preferred and should demonstrate strategy to integrate BIM Models with LEED points. Technical knowledge of Integrating BIM and Sustainability.
- Autodesk Building Performance Analyst certification required.
- Experience with BIM 7D of Integrating BIM with Facility Management. Experience with completing and creating BIM Asset Information Modeling (AIM) and delivering LOD 500 Models to clients.
- Expertise and Knowledge of PAS 1192 and AIA Standards for BIM.
- Actively Involved in BIM User groups. Preferred experience as a speaker on BIM at educational conferences and training sessions.
- Demonstrated expertise with BIM plug-in analytic tools for assessing: Energy, Thermal Comfort, Wind, Light and shadow.
- Expertise in Creating BIM family content and library to be in line with uni-class format and CSI.
- Experience with Implementing BIM across a design firm and creating standards for the firm in BIM.
- Experience with updating standards, content and conducting Monthly project audits in BIM for Project Managers.
- Should demonstrate expert skills in technical production troubleshooting and problem solving.
- Technically proficient in industry related software, such as AutoCAD, Revit, and Navisworks.
- Demonstrated proficiency in construction safety.
- Prior experience with MEP and other services in BIM. Ability to generate and monitor clash free models.
- Technically proficient with computational BIM using Dynamo, Flux and Rhino.
- Demonstrated experience participating in the review, supervision and administration of multi-disciplined contracts with values over \$10M.
- Excellent project management, communication, multi-tasking and leadership skills.

### **Salary**

Salary of \$67,000 CAN

**Benefits**

DSRA offers a comprehensive suite of benefits for employees.

**Business Address**

DSRA Architecture Incorporative  
5495 Spring Garden Road – 4<sup>th</sup> floor  
Halifax, Nova Scotia  
B3J 2G1, Canada

**Location of Position**

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**Contact**

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