

## Job Opportunity: Research Scientist in Data Science

The Image Permanence Institute (IPI) is looking for an accomplished data scientist to join its preservation research team. Reporting to the Director of Research at IPI, this new position offers the opportunity to apply and develop data analytics and modeling within the field of cultural heritage. The appointed researcher will conduct research using advanced data science to generate knowledge from laboratory and field data and address preservation science and cultural heritage challenges related to environmental modeling, material response, and sustainable preservation environmental management strategies. The successful candidate will work in a multidisciplinary team, optimizing analytical methodologies and data collection, and analyzing data from a range of measurement and sensing systems to improve our understanding of underlying causes, effects and solutions. A proportion of time will contribute to educational programming, delivering research-based teaching for professional development within cultural heritage.

[Learn more about the position \(RIT Career Zone, 6678BR\) and apply](#)



## 3D Printing and 3D Printed Objects in Collecting Institutions Survey

As part of a new research project titled "Foundational Research to Inform Preservation Guidelines for the Creation, Collection, and Consumption of 3D Printed Objects in Museums," IPI is conducting an online survey to assess how collecting institutions are using 3D printing and interacting with 3D printed objects and materials. The survey will focus on documenting: What are the most common 3D printed materials currently found in museum collections? What type of conservation interventions have 3D printed objects required? How is 3D printing being used in preservation and access activities? and, What are the field's greatest concerns and questions regarding the use of 3D printing and the preservation of 3D printed objects?

The survey is geared towards professionals who work in and with collecting institutions and who have either cared for 3D printed collection objects or have utilized 3D printing for various preservation and access activities. Responses will be used to inform preservation research agendas specific to 3D printing and guide content generation for a web-based resource intended to support museum professionals as they interact with 3D printing technologies and materials. The survey will take approximately 30 minutes to complete and will be open for responses until Friday, June 3, 2022 at 11:59pm EST.

[Take the survey](#)



## IPI at the American Institute for Conservation's 50<sup>th</sup> Annual Meeting

The theme for this year's AIC annual meeting is "Reflecting on the Past, Imagining the Future" and IPI staff are organizing the concurrent general session *Automation, Conservation, Preservation: Facing the Opportunities and Risks Posed by Technological Innovation*. This session will be Chaired by Emma Richardson, Director of Research, with presentations addressing the themes of data management, artificial intelligence for condition assessment and buildings management, ethics of technological advancement and decision-making, and horizon scanning. One of the presenters will be Chris Cameron, Sustainable Preservation Specialist, who will present "[From Blinking Bulbs to Advance AI: The Past, Present and Future of HVAC Control](#)" as part of the session on Monday, May 16th from 3:00-3:30pm.

In addition to collaborating on the organization of the concurrent general session described above, Meredith Noyes, Research Scientist, will present "[Evaluations of Drying Techniques for Inkjet Prints in Water Emergencies](#)", a summary of findings from a recent IPI research project on Tuesday, May 17th from 1:30-2:30pm.



## Upcoming Workshops and Webinars

### Webinar: Assessing the Energy-saving Potential of a Facility

Date: July 11, 2022  
Time: 1:30-3pm EST (1.5hrs)  
Registration Fee: \$75  
Instructor: Chris Cameron, Sustainable Preservation Specialist at Image Permanence Institute  
Registration Deadline: July 5, 2022

The desire to implement energy-saving strategies is growing among cultural institutions. However, if a facility was not designed, insulated, or sealed properly, implementing certain energy-saving strategies can waste energy. Understanding the energy-saving potential of a facility requires a thorough evaluation of facility capabilities to inform educated decisions on the proper implementation of energy-saving strategies. With proper understanding of a facility, projections can be made including: how long environmental conditions can be sustained during HVAC shutdowns, whether or not the facility is insulated properly, or if errant sources of heat influence a room. This webinar will provide a basic introduction to how to evaluate the energy-saving potential of a collection facility.

[Additional Information and Registration](#)

### Workshop: Inkjet Prints: Identification, Water Emergency Recovery and Preventive Care

Date: August 2-4, 2022 (3 full days - 9am-4pm each day)  
Location: Image Permanence Institute, Rochester Institute of Technology, Rochester, NY  
Registration Fee: \$750 (includes a print sample set)  
Instructors: Al Carver-Kubik, Preservation Researcher, and Meredith Noyes, Research Scientist at Image Permanence Institute  
Registration Deadline: July 5, 2022

Inkjet prints are ubiquitous in photographic and archival collections. In preparing for emergency planning, inkjet prints require special considerations as many inkjet prints are considerably more sensitive to water damage than traditional prints. When wet, they can be prone to high levels of dye bleed, dissolution of paper coatings, cracking or delamination of surface layers, blocking, and ferrotyping. Workshop participants will learn how to identify inkjet prints on varying substrates, rank the relative sensitivities of inkjet materials, understand how the materials behave during different water damage scenarios, evaluate methods for drying prints through a hands-on exercise, and learn preventive measures to safeguard against water emergencies. Each participant will receive a print sample set and pocket microscope valued at \$200.

The workshop will be limited to a maximum of 12 attendees. Registration per individual is \$750 and participants are responsible for their own travel, meals, and lodging costs.

[Additional Information and Registration](#)

### Webinar: What is Dew Point and How is it Factored Into Environmental Management for Collections?

Date: September 12, 2022  
Time: 1:30-3pm EST (1.5hrs)  
Registration Fee: \$75  
Instructor: Chris Cameron, Sustainable Preservation Specialist at Image Permanence Institute  
Registration Deadline: September 5, 2022

When evaluating a collection space environment, existing or in the design phase, one of the primary questions to address is: *what is the dew point?* Dew point is a critical component of a collection space environment. If the dew point is too high or too low, it will contribute to collection damage. For example, excessively high dew points may lead to mold in a space. Understanding the criticality of dew point, what it is, why it matters, and how we can try to control it is important not only for the longevity of collections but for understanding the collection environment as a whole. This webinar will aid in the understanding of what dew point is, and why dew point is so critical in the preservation of collection materials.

[Additional Information and Registration](#)

### Workshop: Advanced Print Identification and Characterization for Photographic Collections

Date: October 18-20, 2022 (3 full days - 9am-4pm each day)  
Location: Image Permanence Institute, Rochester Institute of Technology, Rochester, NY  
Registration Fee: \$650  
Instructors: Al Carver-Kubik, Preservation Researcher at Image Permanence Institute, Taina Meller, Conservator in Charge at George Eastman Museum, and Sarah Casto, Assistant Conservator at George Eastman Museum  
Registration Deadline: September 20, 2022

Photographic print identification is challenging as several print types are difficult to distinguish from one another. This workshop will focus on identification of perennially difficult to identify processes, including matte albumen, matte collodion, early and toned silver gelatin, platinum, and photogravure. Additional viewing will include gum bichromate, bromoil, bromoil transfer, and combination processes, such as gum over platinum. Workshop participants will strengthen and develop new identification skills through workshop demonstrations and hands-on examination exercises using the Image Permanence Institute's study collection. In coordination with the George Eastman Museum, participants will also learn how analytical techniques such as microscopy and X-ray fluorescence spectroscopy can aid in print identification. Two days of the workshop will be held at the Image Permanence Institute (IPI) utilizing IPI's research collection and the third day will take place at the George Eastman Museum viewing and analyzing objects from the museum's photography collection with conservation professionals.

The workshop will be limited to a maximum of 12 attendees. Registration per individual is \$650 and participants are responsible for their own travel, meals, and lodging costs.

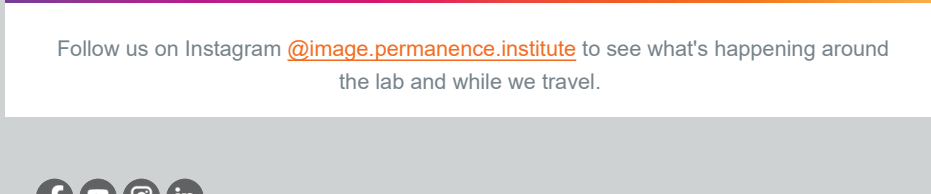
[Additional Information and Registration](#)

### Webinar: Managing Proper Air Flow in Collection Spaces

Date: November 7, 2022  
Time: 1:30-3pm EST (1.5hrs)  
Registration Fee: \$75  
Instructor: Chris Cameron, Sustainable Preservation Specialist at Image Permanence Institute  
Registration Deadline: October 31, 2022

Whether in collection storage or an office space, air flow is a very important aspect of the indoor environment. Lack of air flow can cause stale air and high temperatures, while too much air flow can disturb objects or create comfort issues. Air balancing and fan speed adjustments can have significant impact on air flow in a collection space, and are opportunities to manage the appropriate balance of air flow. Common mistakes that hinder ideal indoor air flow include blocking or short-circuiting of air flow. These issues will waste energy, and can reduce the life of mechanical equipment. This webinar will provide insight into the importance of good air flow, including ways to identify inefficiencies and correct common mistakes.

[Additional Information and Registration](#)



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The Image Permanence Institute® (IPI) is an academic research center within the College of Art and Design at Rochester Institute of Technology (RIT) dedicated to supporting the preservation of cultural heritage collections in libraries, archives, and museums around the world.

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