



Professional Teaming and Teaching with Joint Appointment

Doug McFarland (CWU BS 1997; MS 2004) is a senior scientist with the Pacific Northwest National Laboratory (PNNL), and is based in Richland, WA. He has a distinguished 25-year career of regulatory compliance, applied research, and research and development, in earth sciences, and archaeology.

For most of the past two years McFarland has served as a CWU-PNNL faculty fellow under joint appointment. University partnerships allow PNNL to share expertise

while helping to cultivate the next generation of scientists. PNNL is committed to collaborating with regional academic institutions and supporting impactful research collaborations.

Dr. Steven Hackenberger (Professor, CWU Anthropology Department and Museum) helped develop Doug's joint appointment. Hackenberger shares that, "Doug's skills and drive have served as tremendous resources for our profession, and CWU faculty and students." McFarland's archaeological expertise includes prehistoric archaeology, geoarchaeology, and the legal and regulatory practice of cultural resource management throughout the Pacific Northwest with significant project experience across Washington, Oregon, Idaho.

The **Pacific Northwest National Laboratory** is a national lab with strengths in chemistry, Earth sciences, biology, and data sciences, and is celebrated for innovations based on pure and applied research. Much of its mission pertains to strategies for sustainable energy and safe environments. PNNL collaborates with academia in fundamental research and research applications relevant to cultural and environmental protection. McFarland's commitment to field-based teaching and understanding is well illustrated by his roles in geophysical surveys of archaeological sites and material culture inventories of ethnographic landscapes. His consultation and collaborations with CWU included Native American cultural programs, state regulators, and landowning agencies. Outcomes of these learning communities (including conference, and university presentations) have provided critical context for understanding 10,000+ years of human adaptation in the Pacific Northwest.

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McFarland supervising and teaching in the field

Through past and current CWU collaborations Doug has earned recognition for his roles in developing collaborative learning experiences, mentoring MS graduate students, and making learning relevant by integrating his research and professional service.

Over the past ten years his teamwork in transdisciplinary research with CWU faculty and students has energized our MS Program

in Cultural and Environmental Resource Management. Doug guided students with subsurface geophysical surveys of archaeological sites, the magnetic dynamics of experimental rock oven cooking and related site features, and the magnetic properties of terrestrial and marine sediments from shallow subsurface archaeological sites and deeper geological bore holes.



Joint appointments between PNNL and other research institutions create unique opportunities for researchers to expand their expertise and impact. This distinctive opportunity accelerates research advancements that would not be possible if pursued separately. PNNL's active and growing joint appointment program includes more than 200 researchers from over 60 university and non-profit research institutions. Very recently Doug helped a team of CWU faculty design a research program and a grant proposal for four years of research on Yakima River Basin hydrogeology (isotope data), aquatic biology (insect and salmon populations), forest fire ecology (pine-oak forest regeneration), and traditional ecological knowledge and foods (roots, acorns, salmon, lamprey and freshwater mussel).

McFarland's career spans roles in the private sector, as a federal contractor, and at a national laboratory, where he has combined creativity and research to solve complex compliance challenges. Doug has a strong background in developing and contributing to regulatory and technical reports, research initiatives, and peer-reviewed publications. He has presented proposals in Washington, D.C., shared research findings at professional conferences, and engaged with audiences at universities, high schools, and elementary schools. Dr. Patrick McCutcheon (Professor, CWU Anthropology Department and Museum) a longtime colleague of McFarland's adds that, "Doug's practical experience in the field of cultural resource management archaeology and research equals that of CWU faculty and contributes a unique real-world experience for CWU student learning."

Drawing on his cultural resource management experience Doug is sharing valuable insights and protocol with CWU faculty, staff and students with extensive depth and breadth. As well as creating a relationship with PNNL, his joint appointment has strengthened our two-year collaboration with the Department of Archaeology and Historic Preservation (DAHP) and a more recent partnership with the Washington State Department of Fish and Wildlife (WDFW). These projects have been possible

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based on over \$500,000 of external grant funding for CWU, dedicated to supporting staff and student researchers. DAHP and CWU are currently planning another two-year contract for the 2025-27 biennium. Doug has become an invaluable mentor for staff and students engaged in landscape studies that entail field work, site documentation, and reporting. He has shared both formal class presentations, workshop training and one on one field instruction. Joseph Gambino, a current CWU graduate student says, "I always look forward to working with Doug. He conducts himself in a way that only someone who cares deeply about their work and its impacts would be able to. Throughout my time working with Doug, he has shared invaluable insights that continue to guide not only my field conduct, but also my thesis research. I feel much more equipped to be successful in a cultural resources career due to these shared wisdoms."

Dr. Anne Parfitt (Associate Research Faculty CWU Anthropology Department and Museum) has worked alongside of McFarland on the DAHP project. Parfitt notes that, "Doug has been an invaluable resource for the project, both in terms of developing the research design and field methodology, and in teaching our students fieldwork fundamentals. Doug's landscape-based field methodology has been instrumental in teaching the next generation of archaeologists that cultural resources are more than just artifacts, they are also the plants and landscape features surrounding and connecting archaeological sites". The DAHP project has the objectives of serving the Washington State Department of Natural Resources (DNR) proposals for leasing arid lands for clean/green energy development. The WDFW project has the objectives of re-watering wetlands and controlling invasive plant species in their Columbia Basin Desert refuge. Doug has helped develop our integration indigenous knowledge with western science, by connecting with our Tribal partners to understand their landscape connections to cultural resources.

Among other Native American scholars sharing with Doug and the CWU team, Dr. Karen Capuder, with Confederated Tribes of the Colville Indian Reservation), emphasizes, " Doug McFarland's joint appointment has been a crucial element in the success of the CWU/DAHP collaboration. His willingness to question his own assumptions and his deeply empathic nature help to build necessary bridges between differing ontologies and epistemologies. His interweaving of scientific rigor with a nuanced understanding of Tribal sovereignty and cultural resilience make him an invaluable colleague whom I hold in the highest regard."

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