Dr. Brielle Plost is a pediatric orthopedic surgeon at Ochsner Childrens Hospital in New Orleans, Louisiana where she also serves as the residency program director, medical director of the Ochsner Motion Analysis Lab, and director of the Ochsner Child and Adult Hip Preservation Program. She is also a Senior Lecturer for the University of Queensland School of Medicine.

She was born and raised in Dallas, TX where she developed an early interest in orthopedic surgery from spending time with her father ,who is an orthopedic surgeon. She attended medical school at UT Southwestern followed by residency at the University of New Mexico and a pediatric orthopedic fellowship at Baylor College of Medicine/Texas Children's Hospital/Houston Shriner's Hospital.

Dr. Plost's clinical expertise focuses on general pediatric orthopedics with a special interest in hip preservation, neuromuscular disorders, and clubfoot. She is involved in multidisciplinary clinics for cerebral palsy and myelodysplasias and previously served in the multidisciplinary bone health clinic. She is an active member of AOA's Council of Orthopaedic Residency Directors, AAOS, POSNA, GCMAS, and AACPDM. When not at work, she enjoys spending time with her husband and their three children and enjoying the food and music of New Orleans.