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The primary skeletal connective tissues are bone, cartilage, ligaments, and tendons. The role of these tissues is mainly mechanical, and therefore they have been well studied by biomedical engineers. Bones are probably the most familiar component of the skeletal system, and we will begin this chapter by considering their function, structure, and biomechanical behavior.

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and organs of the human body, such as ligament, tendon, cartilage, skin, and heart. It is our goal to build on the current understanding of the mechanics of these tissues through experimentation and modeling.

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