To determine which engineers to assign fairly and maintain team morale, follow a transparent, participatory approach: 1.olf there are fewer volunteers, use a random draw or lottery system among those who haven't had similar opportunities or challenging assignments recently. Communicate Transparently oHold a team meeting to explain the project's importance, duration, and the challenges of the location.oEmphasize that the selection process will be fair and considerate of everyone's input.2.