```
1    import React from "react";
2    import { Pie } from "react-chartjs-2";
3    import { Box, Typography } from "@mui/material";
4    import { Chart as ChartJS, ArcElement, Tooltip, Legend } from "chart.js";
5
6    // Manually register the necessary Chart.js components
7    ChartJS.register(ArcElement, Tooltip, Legend);
8
9    /**
10    * Component to display a pie chart for visualizing cost distribution by category.
11    *
12    * @param {Object} props - The component props.
13    * @param {Object} props.chartData - An object where keys are cost categories
14    *  and values are the total costs for those categories.
15    * @returns {JSX.Element} The rendered PieChart component.
16    */
17   const PieChart = ({ chartData }) => {
18     const data = {
19       labels: Object.keys(chartData),
20       datasets: [
21         {
22           label: "Costs by Category",
23           data: Object.values(chartData),
24           backgroundColor: ["#FF6384", "#36A2EB", "#FFCE56", "#4BC0C0"],
25           hoverBackgroundColor: ["#FF6384", "#36A2EB", "#FFCE56", "#4BC0C0"],
26         },
27       ],
28     };
29
30     return (
31       <Box
32         sx={{
33           width: "240px",
34           height: "240px",
35           margin: "0 auto",
36         }}
37       >
38         <Typography variant="h5" gutterBottom>
39           Cost Distribution
40         </Typography>
41         <Pie data={data} />
42       </Box>
43     );
44   };
45
46   export default PieChart;
```